

January 20, 2006

Mr. Michele Rochette California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

Subject: File No. 07-0733 (JGU) - 2185 Solano Way, Concord, California

Dear Mr. Rochette:

Enclosed for your review is SOMA's "Fourth Quarter 2005 Groundwater Monitoring, On-Site Free Product Removal and Groundwater Remediation Report" for the subject property. This report has been uploaded to the State's GeoTracker database.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE Principal Hydrogeologist

Enclosure

cc: Mr. Marcus Shimoff

c/o Mr. Bert Horn w/enclosure

Ms. Sue Loyd w/enclosure CCCHSD 4333 Pacheco Blvd.

Martinez, CA 94553



FOURTH QUARTER 2005 Groundwater Monitoring, On-site Free Product Removal, and Groundwater Remediation Report

2185 Solano Way
Concord, California

January 20, 2006

Project 2461

Prepared for

Mr. Marcus Shimoff
Shimoff and Lager
c/o Mr. Bert Horn
405 Primrose Road, Suite 300
Burlingame, California

Prepared by

SOMA Environmental Engineering, Inc. 6620 Owens Drive, Suite A Pleasanton, California

Certification

This report has been prepared by SOMA Environmental Engineering, Inc., on behalf of Mr. Marcus Shimoff, c/o Mr. Bert Horn-Trustee, the property owner of 2185 Solano Way, Concord, California, to comply with the California Regional Water Quality Control Board's requirements for the Fourth Quarter 2005 groundwater monitoring event.

Mansour Sepehr, Ph.D., P.E. Principal Hydrogeologist



Table of Contents

CERT	TIFICATION	I
TABL	E OF CONTENTS	II
LIST	OF TABLES	III
LIST	OF FIGURES	III
LIST	OF APPENDICES	IV
1.0	INTRODUCTION	1
1.1	Previous Activities	1
2.0	RESULTS	2
2.1	FIELD MEASUREMENTS	2
2.2		
2.4	Free Product Removal	5
3.0	GROUNDWATER TREATMENT SYSTEM OPERATION	5
4.0	CONCLUSIONS AND RECOMMENDATIONS	6

List of Tables

Table 1: Historical Groundwater Elevation Data & Analytical Results

Table 2: Groundwater Analytical Results: Gasoline Oxygenates & Lead

Scavengers

Table 3: Total Volume of Free Product Removed

Table 4: Total Volume of Treated Water, Historical Operational Data, and

Historical Effluent Chemical Analytical Results

Table 5: Cumulative Mass of Petroleum Hydrocarbons Removed From

Groundwater Since Installation of Treatment System

List of Figures

Figure 1: Site vicinity map.

Figure 2: Site map showing locations of groundwater monitoring wells,

hydropunches, piezometers, French drain, and extraction well.

Figure 3: Groundwater elevation contour map in feet. December 2005.

Figure 4: Contour map of TPH-g concentrations in groundwater.

December 2005.

Figure 5: Contour map of Benzene concentrations in groundwater.

December 2005.

Figure 6: Contour map of MtBE concentrations in groundwater (EPA

Method 8260B). December 2005.

Figure 7: Contour map of TBA concentrations in groundwater.

December 2005.

Figure 8: Cumulative mass of TPH-g, MtBE, and Benzene removed from

Groundwater during treatment system operation.

List of Appendices

Appendix A: SOMA's Groundwater Monitoring Procedures

Appendix B: Table of Elevations & Coordinates on Monitoring Wells

Measured by Kier Wright Civil Engineers Surveyors, Inc., and

Field Measurements of Biodegradation Parameters & Physical and

Chemical Properties of Groundwater Samples Collected During the

Fourth Quarter 2005.

Appendix C: Laboratory Report and Chain Of Custody Form for the Fourth

Quarter 2005 Monitoring Event

Appendix D: Central Contra Costa Sanitary District Special Discharge PermitAppendix E: Chain of Custody Form and Laboratory Report of the TreatmentSystem Samples

1.0 Introduction

This monitoring report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Marcus Shimoff, c/o Mr. Bert Horn-Trustee, the property owner of 2185 Solano Way Concord, California (the "Site"), as illustrated in Figure 1. The Site is located in an area consisting primarily of commercial and residential property uses.

This report summarizes the results of the Fourth Quarter 2005 groundwater monitoring event conducted at the Site on December 6, 2005, and includes the laboratory analytical results on the groundwater samples.

A natural attenuation study was conducted during this monitoring event. The objective of the natural attenuation study was to evaluate whether the petroleum hydrocarbons found in the groundwater were biodegrading.

These activities were performed in accordance with the general guidelines of the Regional Water Quality Control Board (RWQCB) and the Contra Costa County Environmental Health Department (CCCEHD). Appendix A details the groundwater monitoring procedures used during this monitoring event.

This report also describes the operation of the groundwater extraction system installed by SOMA. The location of the groundwater extraction system is displayed in Figure 2.

1.1 Previous Activities

In December of 1998, four gasoline underground storage tanks (USTs) with capacities of 10,000-gallons, 8,000-gallons, 5,000-gallons, and 4,000-gallons were removed from the Site. Soil samples collected from beneath the USTs and sidewalls of the excavated areas contained elevated levels of petroleum hydrocarbons. In October 1999, RRM, Inc. (RRM) completed soil over-excavation and disposal activities at the Site. Approximately 7 cubic yards of petroleum hydrocarbon impacted soil were excavated from the former southeastern fuel island area. Figure 2 displays the locations of the former USTs and fuel islands.

On March 14, 2000, RRM installed three on-site shallow groundwater monitoring wells (MW-1, MW-2, and MW-3). The locations of these monitoring wells are shown in Figure 2. The historical groundwater elevation data and analytical results are shown in Table 1.

On September 22, 2000, SOMA drilled soil borings (B-1 to B-6) and collected soil and grab groundwater samples from beneath the Site and neighboring properties. On October 10 and 11, 2000, SOMA drilled 3 additional soil borings off-site. The soil borings were converted into monitoring wells (MW-4, MW-5, and MW-6).

In May 2001, hydropunches (HP-1 to HP-8) were drilled and soil and groundwater samples were collected. The results of this investigation revealed the presence of elevated levels of petroleum hydrocarbons and Methyl tertiary Butyl Ether (MtBE) in the groundwater. The locations of the hydropunches are displayed in Figure 2.

In June 2001, SOMA completed a Risk-Based Corrective Action (RBCA) analysis for the Site, which indicated that the Site is a "High Risk" petroleum release site. A sensitive receptor survey within 500 feet of the Site and further site characterizations were also conducted. SOMA set up a groundwater flow and chemical transport model to design a groundwater extraction system for the Site. SOMA further proposed the installation of an off-site groundwater extraction well at 2837 Eastgate Avenue. In July 2001, SOMA prepared and submitted a Corrective Action Plan (CAP) to the RWQCB.

In January 2002, two CPT holes were logged (one on-site and one off-site to the southwest), four grab groundwater samples were collected from each of the two CPT locations, and two piezometers were installed on-site. PZS-1 was screened in the first water-bearing zone, and PZS-2 was screened in the second water-bearing zone. This investigation was used to evaluate the vertical extent of the on- and off-site chemical plume in the subsurface and to determine the hydrogeologic conditions beneath the on- and off-site areas. A confirmation boring was drilled adjacent to the CPT-1 location, to collect soil samples from selected depths for comparison with the CPT lithologic logging. The locations of the CPTs and piezometers are displayed in Figure 2.

In December 2002, SOMA oversaw the installation of a French drain and extraction well (EX-1); their locations are illustrated in Figure 2. On April 16, 2003, SOMA oversaw the replacement of monitoring well MW-2 with well MW-2R; well MW-2 was damaged during the installation of the French drain.

In May 2003, a free product removal program was enacted. Free product has been actively removed from wells MW-2, MW-2R, and MW-3 by using a 2-inch passive skimmer (model number TR-252).

2.0 Results

The following sections provide the results of the field measurements and laboratory analyses from the December 6, 2005 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, the depth to groundwater in the monitoring wells ranged from 7.10 feet in well MW-2R to 11.18 feet in well MW-4. The corresponding groundwater elevations ranged from 27.73 feet in well MW-5 to 33.75 feet in well

MW-2R. The groundwater elevations and depth to groundwater for the extraction well and French drain risers are also shown in Table 1.

The groundwater elevation contour map is displayed in Figure 3. The groundwater extraction system, which includes a French drain and extraction well EX-1, is creating excellent groundwater capture zones. The on-site groundwater gradient, in the direction of the French drain, is approximately 0.166 feet/feet. The off-site groundwater gradient, in the direction of extraction well EX-1, is approximately 0.113 feet/feet.

The mounding at well MW-2R may be attributed to the decreased pumping rate at the eastern French drain riser. This well is the closest well to the French drain. SOMA is currently in the process of replacing the remedial pump in this French drain riser.

Refer to Table 1 for further detailed groundwater elevation trends.

The field notes for the physical, chemical and biodegradation parameters measured during this monitoring event are included in Appendix B. The more positive the redox potential of an electron acceptor is, the more energetically favorable the reaction utilizing that electron acceptor is. The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating the distribution of electron acceptors can provide evidence of where and to what extent hydrocarbon biodegradation is occurring.

DO concentrations ranged from 2.70 mg/L in well MW-1 to 4.79 mg/L in well MW-6. ORP showed negative redox potentials throughout the Site, with the exception of well MW-6. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations can be used as an indicator of anaerobic biodegradation. Ferrous iron ranged from 0.18 mg/L in well MW-5 to 1.2 mg/L in well MW-3. Ferrous iron was not detected in wells MW-1, MW-2R, and the center French drain riser.

Nitrate concentrations were below the equipment's minimum allowable level in all the groundwater samples, with the exception of well MW-1. Nitrate was detected in well MW-1 at 6.8 mg/L. High ferrous iron concentrations in combination with non-detectable nitrate levels are indicative of anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may be indicative of an anaerobic methanogenesis process. Sulfate was below the equipment's tolerance level throughout the Site, with the exception of well MW-1. Sulfate was

detected at the equipment's maximum allowable tolerance range of 80 mg/L in well MW-1.

2.2 Laboratory Analytical Results

Table 1 presents the results of the laboratory analyses on the groundwater samples collected from the monitoring wells, extraction well EX-1, and the French drain.

Total petroleum hydrocarbons as gasoline (TPH-g) was below the laboratory reporting limit in wells MW-1, MW-3, MW-6 and from the sample collected from the French drain. Detectable TPH-g concentrations ranged from 393 ug/L in extraction well EX-1 to 19,900 $\mu g/L$ in well MW-2R. The TPH-g concentration in well MW-2R is several orders of magnitude higher than the remaining site wells. Figure 4 displays the contour map of TPH-g concentrations in the groundwater. The majority of the TPH-g plume appears to be centrally located in the vicinity east of the French drain, around well MW-2R. However, a limited off-site migration of TPH-g has occurred.

All benzene, toluene, ethylbenzene, total xylenes (BTEX) analytes were below the laboratory reporting limit in wells MW-1, MW-6, and the center French drain riser. Toluene was below the laboratory reporting limit in well MW-2R. Benzene was the only BTEX analyte detected in wells MW-3 and EX-1. Both toluene and total xylenes were below the laboratory reporting limit in well MW-4. All BTEX analytes were at low levels in well MW-5. The highest benzene concentration was detected in well MW-3 at 123 ug/L. The highest ethylbenzene and total xylenes concentrations were detected in well MW-2R at 250 ug/L and 1,403 ug/L, respectively.

Figure 5 displays the contour map of benzene concentrations in the groundwater. As this figure illustrates, benzene has only minimally impacted this zone and in several wells was at non-detectable levels.

Methyl tertiary Butyl Ether (MtBE) was detected in all of the groundwater samples collected during this monitoring event. MtBE concentrations ranged from 3.19 μ g/L in MW-1 to 20,100 μ g/L in well MW-3. Figure 6 displays the contour map of MtBE concentrations in the groundwater. The most impacted MtBE region appears to be in the southwestern region of the Site, around well MW-3. The MtBE plume has migrated off-site and was detected in all off-site wells. The off-site migration of MtBE can be attributed to the solubility of MtBE in groundwater.

Refer to Table 1 for further detailed groundwater (TPH-g, BTEX, and MtBE) concentration trends.

Table 2 presents the results of the laboratory analyses on the groundwater samples for gasoline oxygenates and lead scavengers. The only detected gasoline oxygenate was tert-Butyl-Alcohol (TBA). Both lead scavengers 1,2-Dichloroethane (1,2-DCA) and 1,2-Dibromoethane (EDB) were below the laboratory reporting limit. Figure 7 displays the contour map of the TBA concentrations in the groundwater. The most impacted TBA regions were located in the southwestern region of the Site, around well MW-3, and east of the French drain, around well MW-2R.

2.3 Free Product Removal

Due to the minimal amount of free product removed from MW-3 in the preceding months, on June 24, 2004, the passive skimmer was removed from well MW-3 and installed in well MW-2R.

Table 3 presents the total volume of free product and contaminated groundwater removed from wells MW-2, MW-2R and MW-3. The total volume of free product and contaminated groundwater removed from the Site is currently 29.34 gallons, as of October 19, 2005. During site visits from October 19, 2005 to November 17, 2005 only a slight sheen was observed in well MW-2R.

3.0 Groundwater Treatment System Operation

The remediation system initially began operating in October 2003. The treated groundwater was discharged under the requirements of Order 01-100, NPDES Permit No. CAG912002. During the April 15, 2004 sampling event, TBA was detected in both the influent and effluent of the remediation system. The RWQCB was notified about the breakthrough of TBA into the effluent of the treatment system and the treatment system was shutdown.

On June 1, 2004, based on the approval of the RWQCB and the difficulty in removing TBA in groundwater with activated carbon, the NPDES was terminated and the treated groundwater was discharged into the on-site sewer main. Currently, the treated groundwater is being discharged under the Central Contra Costa (CCC) Sanitary District's guidelines. Approximately 1,383,437 gallons of groundwater has been treated and discharged at the Site (as of December 1, 2005). The discharge permit is shown in Appendix D. Presently, there is no discharge limit for TBA enforced by the CCC Sanitary District.

Sampling and maintenance of the groundwater treatment system has been performed on a routine basis. Grab groundwater samples have been collected on a routine basis to determine the efficiency of the treatment system in removing TPH-g, MtBE, and benzene from the groundwater beneath the Site.

All TPH-g, MtBE, and BTEX constituents have remained below the allowable discharge permit's requirements. Appendix E presents the most current

laboratory report for the treatment system samples. Table 4 summarizes the historical effluent results.

Table 4 also shows the operational summary of the treatment system. The last carbon change-out occurred on August 31, 2005. At this time, the existing 2,000-pound carbon vessel was removed and replaced with a newer 2,000 pound carbon vessel, and the two 55-gallon carbon drums, each with approximately 200 pounds of carbon, were also replaced.

The cumulative masses of TPH-g, MtBE, and benzene extracted from the groundwater by the treatment system are approximately 102.85 pounds, 79.85 pounds, and 3.94 pounds, respectively. The cumulative mass of each of the above referenced constituents is also displayed in Figure 8. Table 5 summarizes the historical influent results.

4.0 Conclusions and Recommendations

The findings of the Fourth Quarter 2005 groundwater monitoring event can be summarized as follows:

- Based on the reported groundwater elevations, the extraction well and French drain are providing excellent capture zones, as well as preventing further migration of the impacted groundwater.
- Based on the natural attenuation study, it can be concluded that biodegradation of petroleum hydrocarbons is occurring in the subsurface.
- The region in the vicinity east of the French drain still continues to be an impacted hydrocarbon source area. Since the Second Quarter 2005, however, TPH-g has shown a significant decreasing trend in well MW-2R.
- The highest gasoline oxygenate concentrations, which include MtBE and TBA, appear to be in the southwestern section of the Site. However, the MtBE and TBA concentrations detected this quarter are significantly lower than the historical peak values. TBA is formed in the environment through oxidation of MtBE in the atmosphere followed by hydrolysis or through microbial oxidation of MtBE in impacted aquifer materials.

Based on the results of this monitoring event, SOMA recommends:

 Continuing the quarterly monitoring programs to better understand the seasonal variation in the groundwater quality conditions and rate of contaminant removal;

- Further monitoring of the bio-attenuation parameters in the groundwater to determine if biodegradation is feasible for the significant reduction of petroleum hydrocarbon concentrations in the areas of contamination;
- Routine monitoring of the Site remedial activities to determine the efficiency of the treatment system in removing contaminant mass from the groundwater;
- Based on the recent low free product recovery rate from well MW-2R, the free product removal from this well will be temporarily terminated;
- Based on the continuing non-detectable nitrate concentrations observed during the quarterly monitoring events, SOMA recommends injecting nitrate into all of the Site's wells to enhance biodegradation in the groundwater at these locations;
- Based on the high TBA levels observed during this monitoring event, SOMA recommends injecting peroxide reagents into the Site's wells to decrease the levels of TBA, especially in wells MW-2R and MW-3;
- Based on the shallow water depth observed in the eastern French drain riser, SOMA is currently in the process of replacing the remedial pump in this riser. The reduced extraction rate may be attributed to the ineffectiveness of the internal check valves within the pump due to wear and tear during operation.

Tables

Table 1
Historical Groundwater Elevation Data & Analytical Results
2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE ¹ (μg/L)
MW-1	Mar-00	101.40	6.75	94.65	3500	31	3.4	140	250	520
	Oct-00	101.40	11.55	89.85	NA	NA	NA	NA	NA	NA
	Feb-01	101.40	10.70	90.70	650	16	4.2	21	6	420
	May-01	101.40	9.59	91.81	160	5.9	1.0	2.7	2.5	420
	Aug-01	101.40	11.37	90.03	250	5.5	2.3	5.5	13	470
	Oct-01	101.40	11.92	89.48	140	5	4.4	4.2	10.9	310
	Feb-02	101.40	8.72	92.68	240	9.7	4.2	11	6.3	160
	May-02	101.40	9.30	92.10	64	0.81	<0.5	<0.5	<0.5	110
	Jul-02	101.40	10.65	90.75	110	1.90	< 0.5	2.8	4.3	130
	Nov-02	101.40	10.85	90.55	<50	<0.5	<0.5	<0.5	<0.5	160
	Feb-03	101.40	8.26	93.14	<50	0.58	<0.5	0.66	0.85	43
	May-03 ²	40.78	8.23	32.55	<50	<0.5	<0.5	<0.5	0.54	18
	Aug-03	40.78	10.74	30.04	<50	<0.5	<0.5	<0.5	<0.5	29
	Oct-03	40.78	11.91	28.87	<50	<0.5	<0.5	<0.5	<0.5	33
	Feb-04	40.78	9.69	31.09	<50	<0.5	<0.5	<0.5	<0.5	25
	Apr-04	40.78	8.85	31.93	<50	<0.5	<0.5	<0.5	<0.5	16
	Jul-04	40.78	10.45	30.33	<50	<0.5	<0.5	<0.5	<0.5	15
	Oct-04	40.78	11.74	29.04	<50	<0.5	<0.5	<0.5	<0.5	15
	Feb-05	40.78	7.06	33.72	<50	<2.0	<2.0	<2.0	<2.0	290
	Apr-05	40.78	7.13	33.65	332	3.39	9.49	8.59	39.20	102
	Sep-05	40.78	10.87	29.91	<50	<0.5	<2.0	<0.5	<1.0	5.97
	Dec-05	40.78	9.48	31.30	<50	<0.5	<2.0	<0.5	<1.0	3.19
MW-2	Mar-00	101.38	8.85	92.53	180.000	17,000	29,000	3,800	21,000	180,000
10100 2	Oct-00	101.38	13.80	87.58	NA	NA	NA	NA	NA	NA
	Feb-01	101.38	12.14	89.24	14,000	19,000	37,000	3,600	26,600	79,000
	May-01	101.38	10.72	90.66	150,000	13,000	30,000	3,600	19,800	62,000
	Aug-01	101.38	11.77	89.61	NA	NA	NA	NA	NA	NA
	Oct-01	101.38	12.35	89.03	NA	NA	NA	NA	NA	NA
	Feb-02	101.38	10.31	91.07	190,000 ³	63,902 ³	NA	NA	NA	3,590,000 3,4
	May-02	101.38	10.57	90.81	190,000 ³	63,902 ³	NA	NA	NA	3,590,000 ^{3,4}
	Jul-02	101.38	NM	NM	190,000 ³	63,902 ³	NA	NA	NA	3,590,000 ^{3,4}
	Nov-02	101.38	11.10	90.28	29,000 H	63	270	220	770	130
	Feb-03	101.38	NM	NM	NA	NA	NA	NA	NA	NA NA
	Apr-03	101.38	AB	AB	AB	AB	AB	AB	AB	AB

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MW-2R*	May-03 ^{2,5}	40.85	10.54	30.31	840	140	4.8 C	23	27.6	260
	Aug-03	40.85	11.96	28.89	440	220	7.6	30	23.1	570
	Oct-03	40.85	12.59	28.26	13000	1500	2700	480	2040	490
	Feb-04	40.85	17.54	23.31	56000	2500	6600	1300	7000	370
	Apr-04	40.85	12.34	28.51	69,000	810	3,300	2,100	11,500	550
	Jul-04	40.85	12.40	28.45	55,000	470	1,900	1,900	10,500	170
	Oct-04	40.85	13.00	27.85	100,000	8,400	11,000	3,000	14,000	730
	Feb-05	40.85	11.29	29.56	78,000	1,700	8,000	2,800	15,700	580
	Apr-05	40.85	11.46	29.39	104,000	662	1,590	1,510	8,210	636
	Sep-05	40.85	18.78	22.07	32,400	1,010	3,110	1,230	4,050	44.7
	Dec-05	40.85	7.10	33.75	19,900	56.8	<86	250	1403	1580
MW-3	Mar-00	101.27	9.95	91.32	200,000	8,400	5,600	2,400	8,700	490,000
	Oct-00	101.27	11.85	89.42	NA	NA	NA	NA	NA	NA
	Feb-01	101.27	11.08	90.19	5,600	2,300	520	<200	1,250	290,000
	May-01	101.27	10.49	90.78	5,300	1,400	190	110	178	270,000
	Aug-01	101.27	11.72	89.55	3,200	<630	<630	<630	<630	210,000
	Oct-01	101.27	12.10	89.17	94	920	<630	<630	<630	140,000
	Feb-02	101.27	9.81	91.46	18,000	3,000	640	790	930	350,000
	May-02	101.27	10.30	90.97	190,000 ³	63,902 ³	NA	NA	NA	3,590,000 3,4
	Jul-02	101.27	11.30	89.97	4,300	1,100	< 100	110	190	140,000
	Nov-02	101.27	11.21	90.06	7,800 Z	2,200	43	120	84 C	170,000
	Feb-03	101.27	9.82	91.45	5,100	910	210	87	326	190,000
	May-03 ²	40.29	10.06	30.23	4,800	840	130	91	216	170,000
	Aug-03	40.29	11.64	28.65	8,700	520	57 C	89	296	160,000
	Oct-03	40.29	12.28	28.01	2,000	170	3.4 C	21	38.6 C	100,000
	Feb-04	40.29	12.24	28.05	1,700	240	74	36	94	10,000
	Apr-04	40.29	13.32	26.97	1,600	620	49	66	140	5,100
	Jul-04	40.29	11.92	28.37	860	230	3.2 C	46	36.4	3,800
	Oct-04	40.29	12.31	27.98	500	87	2.1 C	18	15.5	2,600
	Feb-05	40.29	10.40	29.89	1,900	270	97	<63	100	8,600
	Apr-05	40.29	10.40	29.89	<21,500	305	<53.8	<53.8	<108	22,300
	Sep-05	40.29	12.35	27.94	<4620	<46.2	<185	<46.2	<92.5	1,800
	Dec-05	40.29	10.10	30.19	<10800	123	<430	<108	<215	20,100

Table 1
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2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE ¹ (μg/L)
	0.400	100.00	44.00	00.70	0.400		=-	4=0	10	10.000
MW-4	Oct-00	100.00	11.30	88.70	3,400	30	53	170	42	10,900
	Feb-01	100.00	11.41	88.59	5,600	4.8	3.0	110	24.8	1,900
	May-01	100.00	11.07	88.93	3,900	13	23	210	49.2	1,100
	Aug-01	100.00	11.88	88.12	4,400	5	<4.2	52	11.0	1,100
-	Oct-01	100.00	10.92	89.08	2,600	7.7	<4.2	26	11	1,600
	Feb-02	100.00	10.98	89.02	4,000	19 28 ^c	3.7	43	7.6	3,400
	May-02	100.00	11.28	88.72	2,900		<2.5	15	5.9	4,600
	Jul-02	100.00	11.65	88.35	2,400	6.8 C	< 5.0	14	< 5.0	2,200
-	Nov. 02	100.00	11.59	88.41	3,400 H	<0.5	<0.5	15	9.01 C	1,700
	Feb-03	100.00	10.88	89.12	3,200	<5.0	<5.0	12	24.6	6,500
	May-03 ²	39.56	11.09	28.47	2,900	<0.5	<0.5	8.5	1.4 C	8,200
	Aug-03	39.56	11.87	27.69	1,700	<2.5	5.2	3.0	<2.5	7,200
l	Oct-03	39.56	11.97	27.59	1,200	<0.5	<0.5	2.1	<0.5	3,800
	Feb-04	39.56	11.26	28.30	1,300	<2.5	<2.5	4.6	<2.5	2,400
	Apr-04	39.56	11.38	28.18	1,600	6.4 C	<0.5	4.4	0.82	330
	Jul-04	39.56	11.84	27.72	1,200	3.9 C	<0.5	3.1 C	0.51 C	32
	Oct-04	39.56	11.99	27.57	810	5.1 C	<0.5	4.3	0.70	9.8
	Feb-05 Apr-05	39.56 39.56	10.87 10.87	28.69 28.69	2,200 6,930	1.5 0.69	<0.7	3.4 6.07	1.20 <1.0	14 10.7
	Sep-05	39.56	11.50	28.06	1,690	2.73	<0.5 <2.0	1.88	<1.0	4.6
	Dec-05	39.56	11.18	28.38	3110	0.65	<2.0 <2.0	2.68	<1.0 <1.0	4.61
	Dec 05	00.00	11.10	20.30	3110	0.00	\2.0	2.00	\1.0	4.01
MW-5	Oct-00	100.04	11.40	88.64	1,700	205	58	60	26	96,670
	Feb-01	100.04	10.56	89.48	5,800	46	25	57	47.7	54,000
	May-01	100.04	10.40	89.64	6,000	140	29	48	39.8	80,000
	Aug-01	100.04	11.20	88.84	4,700	<170	<170	<170	<170	40,000
	Oct-01	100.04	11.30	88.74	6,000	<170	<170	<170	<170	42,000
•	Feb-02	100.04	10.19	89.85	5,000	70	<50	<50	<50	73,000
	May-02	100.04	10.29	89.75	5,800	190	19 ^c	45	32	120,000
	Jul-02	100.04	10.92	89.12	4,400	< 100	< 100	< 100	< 100	56,000
	Nov. 02	100.04	10.84	89.20	5,000 H	72	<0.5	32	10.5 C	26,000
	Feb-03	100.04	9.94	90.10	6,200	150	<5.0	48	12	89,000
	May-03 ²	38.14	NM	NM	NA	NA	NA	NA	NA	NA
	Aug-03	38.14	10.97	27.17	5,000	76 C	<25	<25	<25	64,000
	Oct-03	38.14	11.28	26.86	7,100	<0.5	<0.5	5.2 C	10.77 C	25,000
	Feb-04	38.14	10.39	27.75	4,000	55	<5.0	16 C	7.9 C	19,000
	Apr-04	38.14	10.50	27.64	6,000	87	<13	32	<13	27,000
	Jul-04	38.14	10.98	27.16	6,500	44	<13	30	<13	13,000
	Oct-04	38.14	11.42	26.72	6,100	110	<1.0	23	8.4	1,300
 	Feb-05	38.14	10.08	28.06	4,400	42	<4.2	12	6.3	860
	Apr-05	38.14	10.15	27.99	<8600	27.5	<21.5	<21.5	<43	1,680
	Sep-05	38.14	11.29	26.85	10,200	59.4	4.34	14.4	3.43	124
	Dec-05	38.14	10.41	27.73	8390	51.2	3.43	12.1	3.03	53.4

Table 1
Historical Groundwater Elevation Data & Analytical Results
2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE ¹ (μg/L)
MW-6	Oct-00	99.76	11.50	88.26	80	<0.5	4	<0.5	1.7	85
	Feb-01	99.76	10.62	89.14	64	0.63	1.2	<0.5	2.7	54
	May-01	99.76	10.20	89.56	<50	<0.5	<0.5	<0.5	0.56	58
	Aug-01	99.76	10.86	88.90	<50	<0.5	1.2	0.9	3.80	47
	Oct-01	99.76	12.50	87.26	88	3.0	3.8	3.8	11.1	54
	Feb-02	99.76	9.98	89.78	<50	<0.50	< 0.50	< 0.50	<0.50	43
	May-02	99.76	10.16	89.60	65	0.84 ^c	1.1	1.4	4.6	42
	Jul-02	99.76	10.56	89.20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	31
	Nov-02	99.76	10.52	89.24	<50	<0.5	<0.5	<0.5	<0.5	32
	Feb-03	99.76	9.82	89.94	<50	<0.5	<0.5	<0.5	<0.5	33
	May-03 ²	37.85	9.99	27.86	<50	<0.5	<0.5	<0.5	<0.5	30
	Aug-03	37.85	10.64	27.21	<50	<0.5	<0.5	< 0.5	<0.5	34
	Oct-03	37.85	10.91	26.94	<50	<0.5	<0.5	<0.5	<0.5	31
	Feb-04	37.85	9.92	27.93	<50	<0.5	<0.5	<0.5	<0.5	33
	Apr-04	37.85	10.07	27.78	<50	<0.5	<0.5	<0.5	<0.5	39
	Jul-04	37.85	10.60	27.25	<50	<0.5	<0.5	<0.5	<0.5	57
	Oct-04	37.85	10.78	27.07	<50	<0.5	<0.5	<0.5	<0.5	160
	Feb-05	37.85	9.62	28.23	<50	<1.7	<1.7	<1.7	<1.7	280
	Apr-05	37.85	9.80	28.05	<200	<0.5	<0.5	< 0.5	<1.0	249
	Sep-05	37.85	10.65	27.20	<100	<1.0	<4.0	<1.0	<2.0	247
	Dec-05	37.85	10.06	27.79	<215	<2.15	<8.60	<2.15	<4.3	196
FDC	Aug-03	41.29	11.63	29.66	3100	1800	<25	130	<25	94,000
	Oct-03	41.29	12.15	29.14	4900	1200	130	210	490	110,000
	Feb-04	41.29	16.21	25.08	2100	170	<17	130	45	3,300
	Apr-04	41.29	14.83	26.46	NA	NA	NA	NA	NA	NA
	Jul-04	41.29	15.98	25.31	NA	NA	NA	NA	NA	NA
	Oct-04	41.29	15.20	26.09	NA	NA	NA	NA	NA	NA
	Feb-05	41.29	16.20	25.09	NA	NA	NA	NA	NA	NA
	Apr-05	41.29	16.24	25.05	NA	NA	NA	NA	NA	NA
	Sep-05	41.29	14.10	27.19	<5380	<53.8	<215	<53.8	<108	342
	Dec-05	41.29	16.20	25.09	<50	<0.5	<2.0	<0.5	<1.0	105
FDE	Aug-03	40.21	11.30	28.91	NA	NA	NA	NA	NA	NA
l l	Oct-03	40.21	11.94	28.27	NA	NA	NA	NA	NA	NA
	Feb-04	40.21	14.62	25.59	NA	NA	NA	NA	NA	NA
	Apr-04	40.21	12.10	28.11	NA	NA	NA	NA	NA	NA
	Jul-04	40.21	12.66	27.55	NA	NA	NA	NA	NA	NA
	Oct-04	40.21	12.41	27.80	NA	NA	NA	NA	NA	NA
	Feb-05	40.21	15.50	24.71	NA	NA	NA	NA	NA	NA
	Apr-05	40.21	15.42	24.79	NA	NA	NA	NA	NA	NA
	Sep-05	40.21	14.60	25.61	NA	NA	NA	NA	NA	NA
	Dec-05	40.21	11.80	28.41	NA	NA	NA	NA	NA	NA

Table 1 Historical Groundwater Elevation Data & Analytical Results 2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE ¹ (μg/L)
FDW	Aug-03	40.18	11.55	28.63	NA	NA	NA	NA	NA	NA
	Oct-03	40.18	12.28	27.90	NA	NA	NA	NA	NA	NA
	Feb-04	40.18	13.98	26.20	NA	NA	NA	NA	NA	NA
	Apr-04	40.18	12.02	28.16	1,000	780	5.7 C	54	9.2 C	6,700
	Jul-04	40.18	12.92	27.26	820	200	<5.0	59	<0.5	8,400
	Oct-04	40.18	13.10	27.08	400	7.3	<0.5	4.3	2.14	90
	Feb-05	40.18	13.07	27.11	590	140	<31	<31	<31	4,700
	Apr-05	40.18	12.40	27.78	<4300	313	16	88.6	136.8	5,730
	Sep-05	40.18	13.10	27.08	NA	NA	NA	NA	NA	NA
	Dec-05	40.18	15.20	24.98	NA	NA	NA	NA	NA	NA
EX-1	Aug-03	37.58	10.44	27.14	NA	NA	NA	NA	NA	NA
	Oct-03	37.58	10.71	26.87	NA	NA	NA	NA	NA	NA
	Feb-04	37.58	15.98	21.60	NA	NA	NA	NA	NA	NA
	Apr-04	37.58	16.33	21.25	NA	NA	NA	NA	NA	NA
	Jul-04	37.58	16.34	21.24	NA	NA	NA	NA	NA	NA
	Oct-04	37.58	16.10	21.48	3,000	46	8.0 C	8.1	3.2	5,600
	Feb-05	37.58	16.38	21.20	2,900	<20	<20	<20	<20	3,200
	Apr-05	37.58	15.59	21.99	<8600	23.2	<21.5	<21.5	<43	2,870
	Sep-05	37.58	14.46	23.12	<2150	<21.5	<86	<21.5	<43	461
	Dec-05	37.58	16.60	20.98	393	2.04	<2.0	<0.5	<1.0	41.9

Notes:

- AB: Abandoned. MW-2 was abandoned and replaced with MW-2R on April 16, 2003.
- C: Presence confirmed, but confirmation concentration differed by more than a factor of two.
- H: Heavier hydrocarbons contributed to the quantitation.
- NA: Not analyzed. Well MW-2 not analyzed due to free product in well from Feb 2002 to July 2002. Free Product in well MW-3 in May 2002 MW-2 was not analyzed in Feb 2003 due construction activities.
 - MW-5 was not analyzed in the Second Quarter 2003, the well was inaccessible, a car was parked over well.
- NM: Not Measured. Well MW-2 was not measured due to construction activities in this area. The well was inaccessible.
 - MW-5 was not measured in the 2nd Q 03 GW event, due to a car parked over the well. The well was inaccessible.
- Z: Sample exhibits unknown single peak or peaks.
- <: Not Detected above the laboratory reporting limit.
- MtBE confirmed by EPA Method 8260B.
- The wells were re-surveyed by Kier & Wright Engineers Surveyors, Inc of Pleasanton, CA on July 8, 2003. The new elevations are based on the assumed datum of 33.71 NAVD88.
- 3 Concentrations for MW-2 (Feb 2002-Jul 2002), MW-3 (May 2002) were estimated based on solubilty rates and mole ratios at 2&C.
- Solubility for MtBE concentration (MW-2 (Feb 2002 to Jul 2002), MW-3 (May 2002) was based on gasoline consisting of 10% MtBE.
- MW-2R replaced monitoring well MW-2 during the Second Quarter 2003. Well MW-2 was damaged during installation of the French drain.

The first time the French drain center riser was sampled was during the Third Quarter 2003.

The first time the French drain west riser was sampled was during the Second Quarter 2004.

EX-1 and the French drain risers (center, east, and west) were first measured for groundwater elevations during the

Third Quarter 2003. The system was not operational during the Third Quarter 2003 monitoring event.

Table 2 Groundwater Analytical Results Gasoline Oxygenates & Lead Scavengers

2185 Solano Way, Concord, California

Monitoring Well	Date	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	1,2-DCA (μg/L)	EDB (μg/L)	Ethanol (μg/L)
MW-1	Apr-04 Jul-04 Oct-04	<10 <10 <10	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<1,000 <1,000 <1,000
	Feb-05	1,400	<2.0	<2.0	<2.0	<2.0	<2.0	<4,000
	Apr-05	<2.5	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
	Sep-05	29.8	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
	Dec-05	<10	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
MW-2R	Apr-04	<83	<4.2	<4.2	<4.2	<4.2	<4.2	<8,300
	Jul-04	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<7,100
	Oct-04	<250	<13	<13	<13	170	<13	<25,000
	Feb-05	<830	<42	<42	<42	<42	<42	<83,000
	Apr-05	<269	<53.8	<53.8	<215	<53.8	<53.8	<108,000
	Sep-05	660	<10.8	<10.8	<43	<10.8	<10.8	<21,500
	Dec-05	11,100	<21.5	<21.5	<86.0	<21.5	<21.5	<43,000
MW-3	Apr-04	68,000	<50	<50	<50	<50	<50	<100,000
	Jul-04	69,000	<20	<20	<20	<20	<20	<40,000
	Oct-04	43,000	<31	<31	<31	<31	<31	<63,000
	Feb-05	76,000	<63	<63	<63	<63	<63	<130,000
	Apr-05	4,770	<53.8	<53.8	<215	<53.8	<53.8	<108,000
	Sep-05	53,400	<46.2	<46.2	<185	<46.2	<46.2	<92,500
	Dec-05	30,900	<108	<108	<430	<108	<108	<215,000
2024	I A 0.4	0.000	0.5	0.5	0.5	0.5	0.5	5.000
MW-4	Apr-04	3,000	<2.5	<2.5	<2.5	<2.5	<2.5	<5,000
	Jul-04	2,500	1.2	<0.7	<0.7	<0.7	<0.7	<1,400
	Oct-04	990	<0.7	<0.7	<0.7	<0.7	<0.7	<1,400
	Feb-05	1,200	<0.7	<0.7	<0.7	<0.7	<0.7	<1,400
	Apr-05	922	0.89	< 0.5	<2.0	< 0.5	< 0.5	<1,000
	Sep-05 Dec-05	332 149	<0.5 <0.5	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<0.5 <0.5	<1,000 <1,000
	Dec-05	149	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
NAVA/ F	Anr 0.4	.E 000	.050	.050	.050	.050	.050	-500,000
MW-5	Apr-04	<5,000	<250	<250	<250	<250	<250	<500,000
	Jul-04 Oct-04	14,000	<36 <10	<36 <10	<36 <10	<36 <10	<36 <10	<71,000
	OCI-04	1,400	<10	<10	<10	<10	<10	<20,000

Table 2 Groundwater Analytical Results Gasoline Oxygenates & Lead Scavengers

2185 Solano Way, Concord, California

Monitoring		TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol
Well	Date	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-5 cont.	Feb-05	4,900	<4.2	<4.2	<4.2	<4.2	<4.2	<8,300
	Apr-05	3,470	<21.5	<21.5	<86	<21.5	<21.5	<43,000
	Sep-05	856	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
	Dec-05	676	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
MW-6	Apr-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Jul-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Oct-04	<25	<1.3	<1.3	<1.3	<1.3	<1.3	<2,500
	Feb-05	<33	<1.7	<1.7	<1.7	<1.7	<1.7	<3,300
	Apr-05	<2.5	< 0.5	<0.5	<2.0	< 0.5	< 0.5	<1,000
	Sep-05	41.9	<1.0	<1.0	<4.0	<1.0	<1.0	<2,000
	Dec-05	202	<2.15	<2.15	<8.60	<2.15	<2.15	<4,300
French Drain 8	& Extraction \	Well (EX-1)						
F.D.West	Apr-04	41,000	<3.6	<3.6	<3.6	<3.6	<3.6	<7,100
	Jul-04	67,000	<50	<50	<50	<50	<50	<100,000
	Oct-04	39,000	<17	<17	<17	<17	<17	<33,000
	Feb-05	9,000	<31	<31	<31	<31	<31	<63,000
	Apr-05	6,910	<10.8	<10.8	<43	<10.8	<10.8	<21,500
F.D.Center	Sep-05	52,400	<53.8	<53.8	<215	<53.8	<53.8	<108,000
	Dec-05	624	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
EX-1	Oct-04	12,000	<36	<36	<36	<36	<36	<71,000
	Feb-05	24,000	<20	<20	<20	<20	<20	<40,000
	Apr-05	<108	<21.5	<21.5	<86	<21.5	<21.5	<43,000
	Sep-05	25,500	<21.5	<21.5	<86	<21.5	<21.5	<43,000
	Dec-05	1,000	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000

Notes:

<: Not detected above the laboratory reporting limit.

Gasoline Oxygenates: Lead Scavengers:
TBA: tertiary butyl alcohol 1,2-Dichloroethane
DIPE: Isopropyl ether EDB: 1,2-Dibromoethane

Table 3

Total Volume of Free Product Removed
2185 Solano Way, Concord, California

			MW-2	
Date	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
		2002	and the second s	
		MW-2		
05/23/02	Passive Car	nister Installed	3.00	3.000
5/31/2002 ¹	0.092	0.092	0.000	0.184
6/10/2002 ²	0.031	0.169	0.500	0.699
6/14/2002 ²	0.023	0.153	1.000	1.176
6/21/2002 ²	0.003	0.184	1.000	1.187
6/26/2002 ¹	0.460	0.230	2.392	3.082
7/5/2002 ²	0.003	0.092	1.000	1.095
7/19/2002	0.010	0.001	0.420	0.431
7/26/2002	0.010	0.062	1.380	1.452
8/2/2002 ³				
8/13/2002 ⁴	0.017		1.000	1.017
8/23/2002	0.015	0.01	1.000	1.025
9/4/2002	0.000	0	1.000	1.000
9/12/2002	0.008	0.060	1.000	1.068
9/19/2002	0.000	0.73	2.250	2.980
9/25/2002	0.003	0.06	1.500	1.563
10/21/2002	0.000	0	0.500	0.500
10/21/2002	0.000	0.006	0.500	0.835
11/5/2002	0.001	0.003	0.020 NB	0.004
11/14/2002	0.004	0.000	2.010	2.014
11/20/2002	0.001	0	1.520	1.521
12/6/2002	0.003	0.04	1.000	1.043

Table 3

Total Volume of Free Product Removed
2185 Solano Way, Concord, California

	T		MW-2	
Date	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
		MW-3		
10 March 10		2003	2,000	
7/22/2003	0.000	0.030	NB	0.030
7/30/2003	0.000	0.024	NB	0.024
8/6/2003	0.001	0.011	NB	0.013
8/12/2003	0.001	0.011	NB	0.013
8/20/2003	0.000	0.011	NB	0.011
8/26/2003	0.000	0.031	NB	0.031
9/10/2003	0.000	0.061	NB	0.061
9/19/2003	0.000	0.031	NB	0.031
9/23/2003	0.000	0.061	NB	0.061
SIZGIZGGG	0.000	3.33		
10/3/2003	0.000	0.031	NB	0.031
10/9/2003	0.007	0.046	NB	0.053
10/16/2003	0.007	0.046	NB	0.050
10/10/2003	0.004	0.040	NB	0.038
10/23/2003	0.007	0.031	NB	0.042
	0.011	0.031	NB	0.045
11/5/2003	0.015	0.031	NB	0.045
11/12/2003		0.031	NB NB	0.049
11/26/2003	0.018	0.031	NB NB	0.135
12/2/2003	0.074		NB	0.133
12/10/2003	0.066	0.031	li de la companya de	0.102
12/16/2003	0.040	0.061	NB	1
12/23/2004	0.033	0.061	NB	0.094
12/31/2003	0.011	0.092	NB NB	0.103
1/27/1685 ST 1886/1/40	S. Commence of the Second	2004	=	<u>i produce de la compania de la comp</u>
1/6/2004	0.031		NB	0.031
1/13/2004	0.031		NB	0.031
1/19/2004	0.031		NB	0.031
1/27/2004	0.031		NB	0.031
2/3/2004	0.061		NB	0.061
2/10/2004	0.031		NB	0.031
2/17/2004	0.031		NB	0.031
2/25/2004	0.031		NB NB	0.031
3/2/2004				0.000
3/11/2004				0.000
3/18/2004				0.000
3/23/2004				0.000
3/31/2004				0.000
4/5/2004	0.015		NB 	0.015
4/15/2004			NB	0.000

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

			MW-2	
Date	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
		MW-2R*		
6/24/2004	0.008		NB	0.008
6/28/2004	0.004		NB	0.004
and the second second second second				
7/6/2004			NB	0.000
7/14/2004			NB	0.000
7/21/2004			NB	0.000
7/27/2004	0.004		NB	0.004
8/4/2004	0.004		NB	0.004
8/10/2004			NB	0.000
8/18/2004			NB	0.000
8/25/2004	0.004		NB	0.004
9/3/2004	0.015		NB	0.015
9/10/2004	0.015		NB	0.015
9/16/2004	0.015		NB	0.015
9/24/2004	0.004		NB	0.004
	guede est d'Est Marie III	The second second second		
10/1/2004	0.008		NB	0.008
10/8/2004	0.008		NB	0.008
10/13/2004	0.008		NB	0.008
10/20/2004	0.008		NB	0.008
10/29/2004	0.031		NB	0.031
11/5/2004	0.031		NB	0.031
11/12/2004	0.031		NB	0.031
11/18/2004	0.031		NB	0.031
11/24/2004	0.031		NB	0.031
12/2/2004	0.061		NB	0.061
12/10/2004	0.061		NB	0.061
12/14/2004	0.092		NB	0.092
12/22/2004	0.061		NB	0.061
12/29/2004	0.092		NB	0.092

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

			MW-2	
Date	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
		2005		
1/7/2005	0.092		NB	0.092
1/11/2005	0.092		NB	0.092
1/21/2005	0.092		NB	0.092
1/28/2005	0.061		NB	0.061
2/3/2005	0.061		NB	0.061
2/11/2005	0.061		NB	0.061
2/16/2005	0.031		NB	0.031
3/17/2005	0.031		NB	0.031
			100 May	· · · · · · · · · · · · · · · · · · ·
4/4/2005	0.031		NB	0.031
4/15/2005	0.061		NB	0.061
4/20/2005	0.031		NB	0.031
4/25/2005	0.031		NB	0.031
5/2/2005	0.031		NB	0.031
5/12/2005	0.061		NB	0.061
5/18/2005	0.061		NB	0.061
6/17/2005	0.061		NB	0.061
6/21/2005	0.031		NB	0.031
6/28/2005	0.031		NB	0.031
E 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18				
8/3/2005	0.046		NB	0.046
8/8/2005	0.046		NB	0.046
8/26/2005	0.008		NB	0.008
8/31/2005	0.031		NB	0.031
9/9/2005	0.046		NB	0.046
9/13/2005	0.031		NB	0.031
9/20/2005	0.046		NB	0.046
9/29/2005	0.031		NB	0.031
8 6 6 6 6 6 7 1	18 11 St. 18 11 11 11 11 11 11 11 11 11 11 11 11	778 - 13 - 13 - 10 - 10 - 10 - 10 - 10 - 10		
10/4/2005	0.015		NB	0.015
10/19/2005	0.031		NB	0.031
Total	3.14	1.90	24.30	29.34

Notes

The skimmer was removed from well MW-2 due to construction activities during the French drain installation, the skimmer was re-installed in well MW-3.

No free product was observed in the skimmer from 3/2/04 to 4/5/04, 2/25/05 to 3/11/05, and 10/14/05, 10/25/05 to 11/17/05

^{*} The skimmer was moved from MW-3 to MW-2R on June 24. 2004

¹ Some water in canister

² Mostly water in canister

⁵ Passive canister removed and taken to E.I. for servicing

⁴ Passive canister was re-installed after being serviced at E.I.

 $^{^{\}mbox{\scriptsize NB}}$ Not bailed contaminated water and free product removed only from skimmer.

Table 4

Total Volume of Treated Water, Historical Operational Data, and
Historical Effluent Chemical Analytical Results
2185 Solano Way,Concord

	Volume	TPH-g	MtBE 1	Benzene	Toluene	Ethylbenzene	Total Xylenes			
Date	(gallons)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
2003										
27-Oct-03	190	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
31-Oct-03	1,860	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
14-Nov-03	4,700	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
17-Nov-03	13,540	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
2004										
6-Jan-04	18,500	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
7-Jan-04	25,500	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
13-Jan-04	51,000	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
*19-Jan-04	75,560	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
*21-Jan-04	83,210	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
28-Jan-04	106,510	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
3-Feb-04	127,010	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
10-Feb-04	151,300	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
19-Feb-04	184,720	carbon change-out 2000 lb vessel, 2 55-gallon polishing vessels								
25-Feb-04	203,620	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
*2-Mar-04	233,840	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
9-Mar-04	252,800	<50	<2.0	<0.5	<0.5	<0.5	< 0.5			
18-Mar-04	261,300	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
23-Mar-04	276,430	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
31-Mar-04	280,222	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
5-Apr-04	298,210	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
15-Apr-04	328,040	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
16-Apr-04	329,020	system shut-down due to TBA detected in effluent sample, discharge permit changed from NPDES to CCC Sanitary District discharge permit								
17-May-04	329,020	flow meter switched to a digital instantaneous meter (GPI 09 Computer Electronics)								
8-Jun-04	329,020	LEL meter Safe T Net 100 installed on system								
10-Jun-04	329,020	Meeting w/ CCC Sanitary District to show District install of flow meter and LEL meter								
14-Jun-04	329,170	Calibration of flow meter by Aqua Sierra, start-up of system, initial discharge to CCC Sanitary District								
14-Jun-04	329,320	<50	NA	<0.5	<0.5	<0.5	<0.5			

Table 4

Total Volume of Treated Water, Historical Operational Data, and
Historical Effluent Chemical Analytical Results
2185 Solano Way,Concord

Date	Volume (gallons)	TPH-g (ug/L)	MtBE ¹ (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)			
2004										
6-Jul-04	355,053	<50	NA	<0.5	<0.5	<0.5	<0.5			
4-Aug-04	371,123	<50	NA	<0.5	<0.5	<0.5	<0.5			
10-Sep-04	414,343	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
8-Oct-04	463,370	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
12-Nov-04	549,217	<50	10.8	<0.5	<0.5	<0.5	<1.0			
10-Dec-04	620,760	<50	<0.5	<0.5	<0.5	<0.5	<1.0			
2005										
7-Jan-05	710,180	<50	94	<0.5	<0.5	<0.5	<0.5			
11-Jan-05	722,070		carbon change	e-out 2000 lb v	essel, 2 55-g	allon polishing ve	ssels			
3-Feb-05	778,030	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
02-Mar-05	886,800	<4300	<10.8	<10.8	<10.8	<10.8	<21.5			
15-Apr-05	985,100	<200	4.34	<0.5	<0.5	<0.5	<1.0			
25-Apr-05	1,015,920		carbon change	e-out 2000 lb v	essel, 2 55-g	allon polishing ve	ssels			
02-May-05	1,029,276	<200	<0.5	<0.5	<0.5	<0.5	<1.0			
18-May-05	1,062,920	installed electrical pump in F.D. West and replaced electrical pump in F.D. East								
10-Jun-05	1,096,570	<200	1.24	<0.5	<2.0	<0.5	<1.0			
21-Jun-05	1,126,470	Calibration of flow meter by Aqua Sierra								
31-Aug-05	1,283,614	carbon change-out, replaced 2 55-gallon polishing vessels, removed existing 2000 lb carbon vessel, and replaced with newer 2000 lb carbon vessel								
09-Sep-05	1,292,124	<50	<2.0	<0.5	<0.5	<0.5	<0.5			
01-Dec-05	1,383,437	<50	<2.0	<0.5	<0.5	<0.5	<0.5			

Notes:

NA- Not analyzed, based on the Sanitary District requirements for MtBE.

- < = not detected above laboratory reporting limits.
- 1: MtBE Confirmed by EPA Method 8260B.

Only effluent sample collected on Jan. 19, Jan. 21, and March 2, 2004

Table 5
Cumulative Mass of Petroleum Hydrocarbons Removed from Groundwater Since
Installation of Treatment System
2185 Solano Way,Concord

Date	Volume	Influer	nt Concentration	ι (μg/L)	Mass Removed (pounds)		
	(gallons)	TPH-g	MtBE *	Benzene	TPH-g	MtBE	Benzene
			2003				
27-Oct-03	190	1,000	40,000	150	0.002	0.06	0.0002
31-Oct-03	1,860	2,600	15,000	530	0.04	0.27	0.01
14-Nov-03	4,700	300	26,000	62	0.04	0.89	0.01
17-Nov-03	13,540	<1,300	22,000	140	0.04	2.51	0.02
		-	2004		-		
6-Jan-04	18,500	10,000	15,000	540	0.46	3.13	0.04
7-Jan-04	25,500	20,000	24,000	1,400	1.62	4.53	0.12
13-Jan-04	51,000	50,000 Y	22,000	750	12.24	9.20	0.28
28-Jan-04	106,510	7,100	16,000	530	15.52	16.59	0.53
3-Feb-04	127,010	11,000	6,200	870	17.40	17.65	0.68
10-Feb-04	151,300	8,300	35,000	130	19.08	24.73	0.70
25-Feb-04	203,620	27,000	5,400	940	30.84	27.08	1.11
9-Mar-04	252,800	12,000	20,000	730	35.75	35.27	1.41
18-Mar-04	261,300	3,700	37,000	690	36.01	37.89	1.46
23-Mar-04	276,430	<2500	36,000	<25	36.01	42.42	1.46
31-Mar-04	280,222	<2500	35,000	170	36.01	43.53	1.47
5-Apr-04	298,210	2,900	36,000	310	36.45	48.92	1.51
15-Apr-04	328,040	4,300	21,000	670	37.52	54.14	1.68
14-Jun-04	329,170	2,700	NA	470	37.54	NA	1.68

Table 5
Cumulative Mass of Petroleum Hydrocarbons Removed from Groundwater Since
Installation of Treatment System
2185 Solano Way,Concord

Date	Volume	Influent Concentration (μg/L)			Mass Removed (pounds)		
	(gallons)	TPH-g	MtBE *	Benzene	TPH-g	MtBE	Benzene
			2004				
6-Jul-04	355,053	3,500	NA	610	38.30	NA	1.81
4-Aug-04	371,123	3,500	NA	430	38.76	NA	1.87
10-Sep-04	414,343	3,200	11,000	150	39.92	58.09	1.93
8-Oct-04	463,370	4,600	5,100	150	41.79	60.18	1.99
12-Nov-04	549,217	5,633	7,525	339.7	45.82	65.55	2.23
10-Dec-04	620,760	205	416	<4.3	45.94	65.80	2.23
			2005				
7-Jan-05	710,180	9,800	6,200	520	53.24	70.42	2.62
3-Feb-05	778,030	4,200	4,700	70	55.61	73.07	2.66
2-Mar-05	886,800	14,300	1,300	516	68.56	74.25	3.12
15-Apr-05	985,100	<4200	3,630	15	68.56	77.22	3.14
02-May-05	1,029,276	5,510	1640	158	70.59	77.83	3.19
10-Jun-05	1,096,570	6,060	1,480	244	73.98	78.65	3.33
9-Sep-05	1,292,124	16,000	370	350	100.03	79.26	3.90
01-Dec-05	1,383,437	3,700	780	57	102.85	79.85	3.94

Notes:

NA- Not analyzed, based on the Sanitary District requirements for MtBE.

Volume is shown as total system discharge. SOMA began discharging treated groundwater to the Central Contra Costa Sanitary District after 329,020 gallons of total flow through system.

< = not detected above laboratory reporting limits.

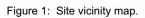
^{*:} MtBE Confirmed by EPA Method 8260B.

Figures





approximate scale in feet





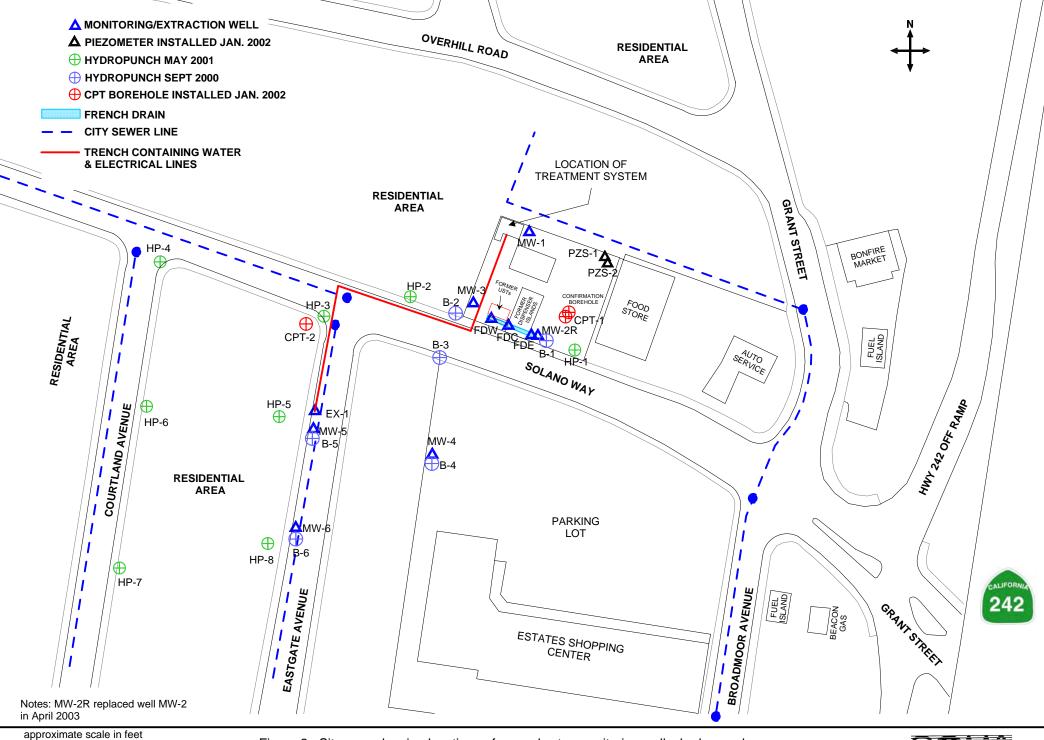
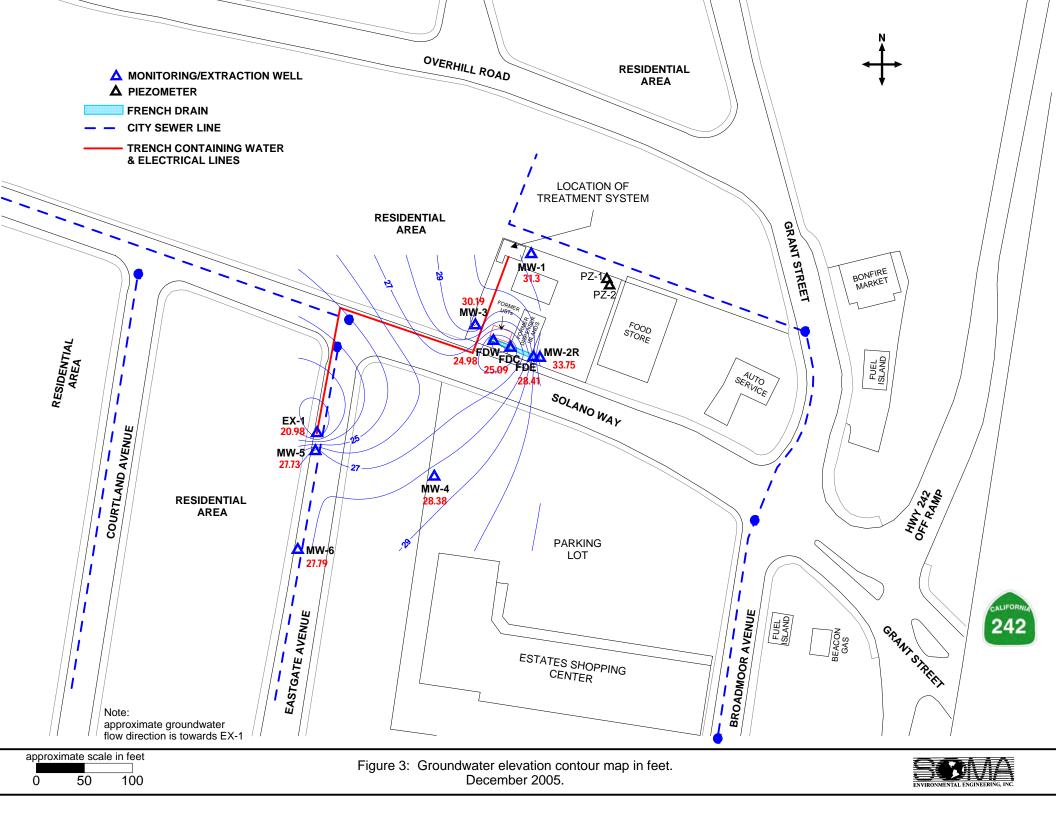


Figure 2: Site map showing locations of groundwater monitoring wells, hydropunches, piezometers, the French Drain, and the extraction well.





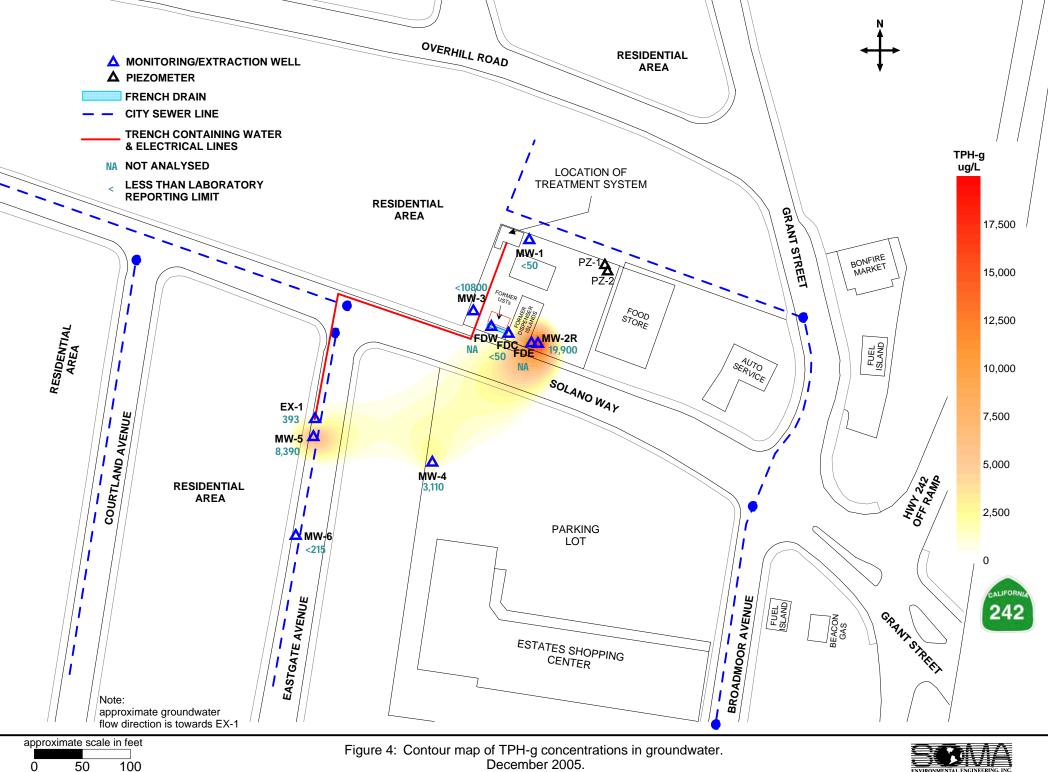


Figure 4: Contour map of TPH-g concentrations in groundwater. December 2005.



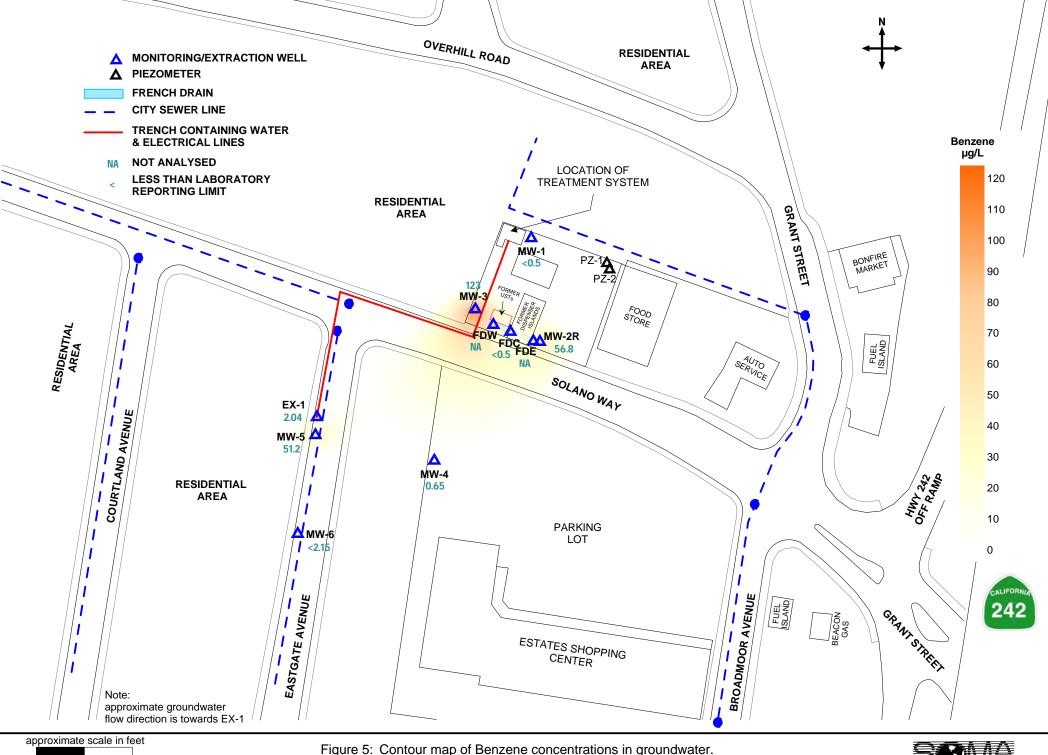
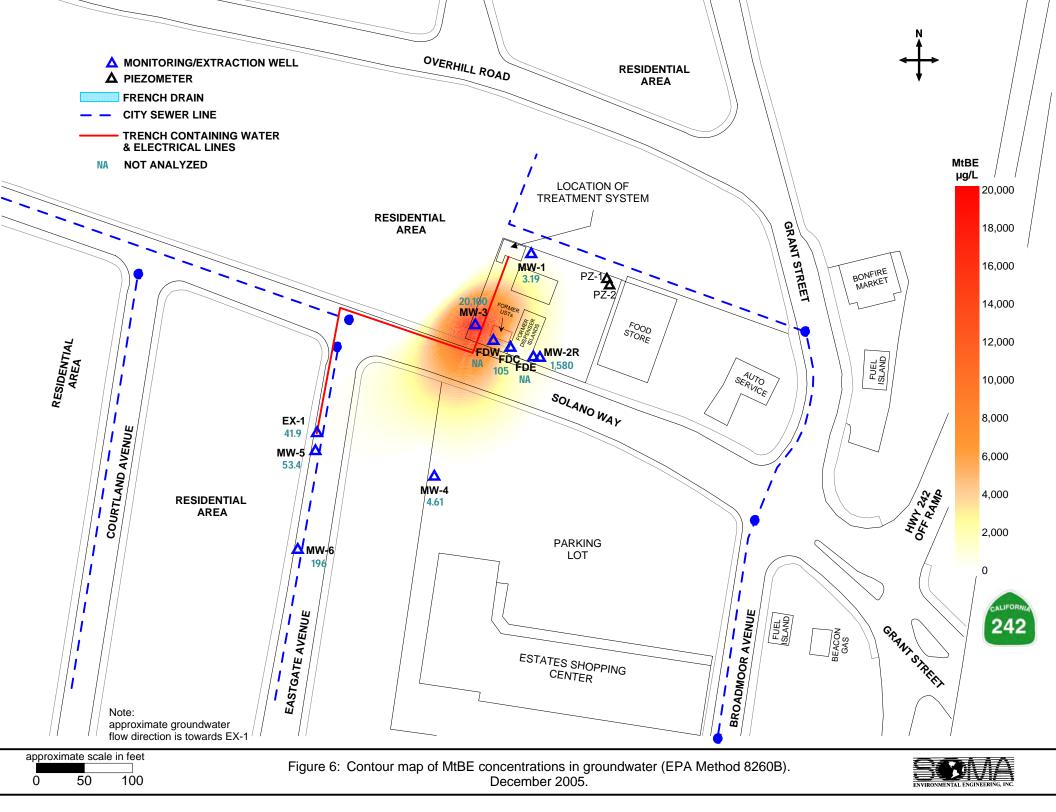


Figure 5: Contour map of Benzene concentrations in groundwater. December 2005.

0

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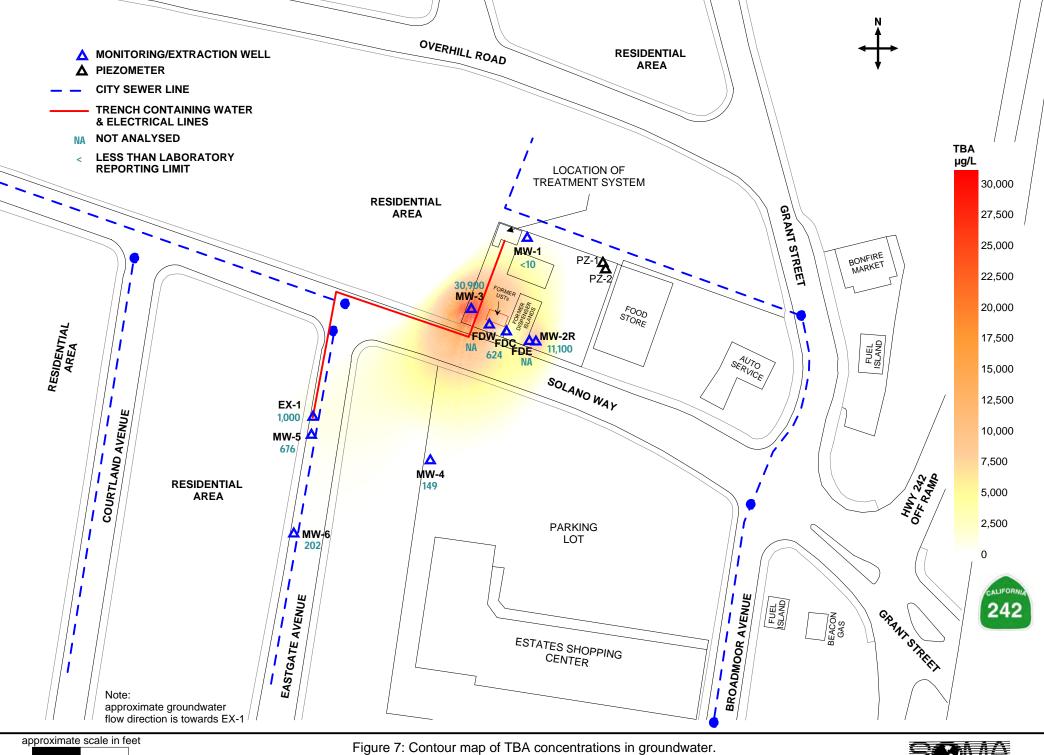
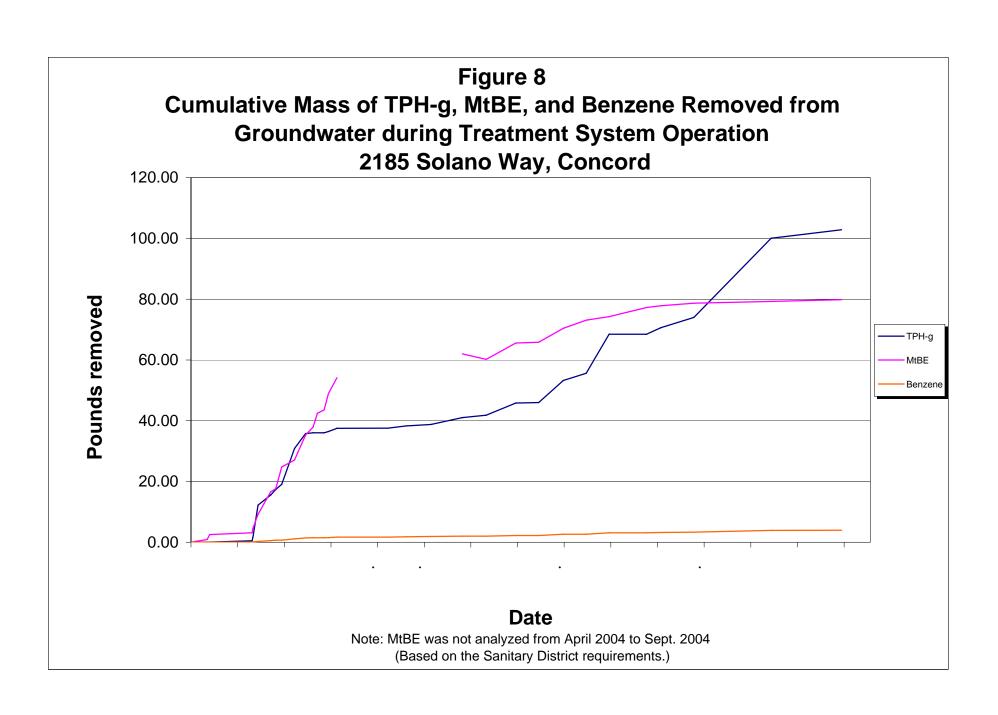


Figure 7: Contour map of TBA concentrations in groundwater.

December 2005.





Appendix A



Field Activities

On December 6, 2005, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the RWQCB. During this groundwater monitoring event six monitoring wells (on-site wells MW-1 to MW-3, and off-site wells MW-4 to MW-6) were monitored, as well as, the French drain risers. Depths to groundwater were recorded for the French drain risers and the off-site extraction well, EX-1. A grab groundwater sample was collected from the center riser of the French drain and extraction well EX-1. Figure 2 shows the locations of the monitoring wells and French drain risers.

The depth to groundwater in each monitoring well, French drain riser, and the extraction well were measured from the top of each casing to the nearest 0.01-foot using an electric sounder. The top of the casing elevation data and the depth to groundwater in each location was used to calculate the groundwater elevation at different locations.

The top of the casing elevations were based on the survey data measured on July 8, 2003. Kier & Wright Engineers Surveyors, Inc. of Pleasanton, California measured the top of casing elevations on all of the wells. The elevation data was based on a datum of 33.71 feet, NAVD88. The survey data is included in Appendix B. The survey was conducted to comply with EDF requests for electronic reporting of data to the State Water Resources Control Board (SWRCB) Database.

Prior to collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC).

During the purging activities, in order to obtain accurate measurements of groundwater parameters and especially to avoid the intrusion of oxygen from ambient air into the groundwater samples, field measurements were conducted in-situ (i.e., down-hole inside each monitoring well). The groundwater parameters such as DO, pH, temperature, EC, turbidity, and the ORP were measured in-situ using a Horiba, Model U-22 multi-parameter instrument. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

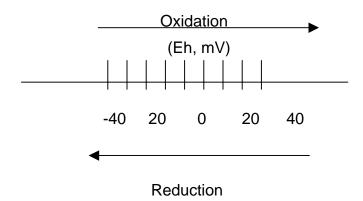
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater conductivity (EC) is directly related to the concentration of ions in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity

level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP (oxidation reduction potential) is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process a molecule or ion loses one or several electrons. In the reduction process a molecule or ion gains one or several electrons. The unit of the redox potential, is the Volt or m-Volt. The most important redox reaction in petroleum contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O₂ in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O₂ replenishment in subsurface environments is limited, DO can be entirely consumed, when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved O₂ in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO₃, MnO₂, Fe (OH)₃, SO₄²⁻ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized or three casing volumes were purged.

For sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into four 40-mL VOA vials, which had been prepared with HCl preservative. The vials were sealed properly to prevent the development of any air bubbles within the headspace area. After the

groundwater samples were collected, they were placed on ice in a cooler to maintain the samples at 4°C. On December 6, 2005, the samples were accompanied by a chain of custody (COC) form and delivered by SOMA's field crew to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

Pacific Analytical Laboratory, state certified laboratories, analyzed the groundwater samples for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), Methyl tertiary Butyl Ether (MtBE), gasoline oxygenates, and lead scavengers. TPH-g, BTEX, MtBE, gasoline oxygenates, and lead scavengers were all prepared using EPA Method 5030B and analyzed using EPA Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells Measured by Kier Wright Civil Engineers Surveyors, Inc.

and

Field Measurements of Biodegradation Parameters & Physical and Chemical Properties of Groundwater Samples Collected During the Fourth Quarter 2005

DATE: 7/08/03 JOB# A02576-4

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL 2185 SOLANO WAY, CONCORD

WELL ID	NORTHING (FT.)/	EASTING (FT.) /		
#	LATITUDE (D.M.S.)	LONGITUDE (D.M.S.)	ELEVATION (FT.)	
EX-1	2186488.06	6116997.91	37.58	TOP 6" PVC, FELT ARROW N. SIDE
	N 37°59'22.78774"	W 122°02'35.02008"	37.46	RIM/FLUSH /W AC
FDC	2186577.28	6117215.79	41.29	TOP 4" PVC, PAINT DOT N. SIDE
100	N 37°59'23.70515"	W 122°02'32.31711"	40.94	RIM, PUNCH N. SIDE
	14 37 39 23.70313	VV 122 02 02.31711	40.54	GRAVEL
FDE	2186567.29	6117239.59	40.21	TOP 4" PVC, PAINT DOT N. SIDE
LDE .	N 37°59'23.61032"	W 122°02'32.01773"	41.05	RIM, PUNCH N. SIDE
	N 37 59 23.61032	VV 122 02 32.01773		,
			40.58	GRAVEL
FDW	2186584.35	6117198.00	40.18	TOP 4" PVC, PAINT DOT N. SIDE
	N 37°59'23.77219"	W 122°02'32.54076	40.84	RIM, PUNCH N. SIDE
			40.51	GRAVEL
MW-1	2186674.84	6117237.26	40.78	TOP 2" PVC, NOTCH N. SIDE
10100	N 37°59'24.67303"	W 122°02'32.06903"	41.03	RIM, PUNCH N. SIDE
	14 07 00 24:07 000	VV 122 02 02.00000	41.02	AC
MW OD	2186566.70	6117246.21	40.05	TOD 3" DVC NOTCLINI CIDE
MW-2R			40.85	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'23.60555"	W 122°02'31.93486"	41.13	RIM, PUNCH N. SIDE
			40.85	GRAVEL
MW-3	2186600.54	6117178.94	40.29	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'23.92909"	W 122°02'32.78214"		NO BOX
			40.52	DIRT
MW-4	2186444.59	6117123.20	39.56	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'22.37842"	W 122°02'33.44620"	39.81	RIM, PUNCH N. SIDE
	14 07 00 22:07 0 12	VV 122 02 00:11020	40.09	AC
MW-5	2186469.33	6116994.39	38.14	TOP 2" PVC, NOTCH N. SIDE
C-VVIVI				•
	N 37°59'22.60202"	W 122°02'35.06022"	38.39	RIM, PUNCH N. SIDE
			38.40	AC
MW-6	2186366.54	6116974.04	37.85	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'21.5826"	W 122°02'35.29311"	38.15	RIM/FLUSH /W AC

ADDITIONAL POINTS

PT#	NORTHING (FT.)	EASTING (FT.)	ELEVATION (FT.)	DESCRIPTION
45	2186637.27	6117216.27	N/A	BL<

Kier & Wright Engineers Surveyors, Inc.

DATE: 7/08/03 JOB# A02576-4

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL 2185 SOLANO WAY, CONCORD

46	2186622.14	6117255.86	N/A	BL<
47	2186646.63	6117265.13	N/A	BL<
33	2186578.43	6117165.64	39.15	TC DWY
34	2186567.19	6117194.76	39.45	TC DWY
35	2186542.61	6117258.10	39.87	TC DWY
36	2186531.23	6117287.30	40.03	TC DWY
42	2186571.14	6117211.90	N/A	CANOPY <
43	2186562.21	6117234.13	N/A	CANOPY <
44	2186608.15	6117252.56	N/A	CANOPY <

BENCH MARK: NGS Bench mark No.BM 3137

From the intersection of I-680 and Concord Ave. in Concord, go east on Concord Ave. 0.85 miles to a bridge over Walnut Creek and the station on the left. Station is at the east end of the bridge, on the north side of Concord Ave. station is 26 feet west of the east end of the bridge and 1.3 feet north of the north edge of pavement of Concord Ave. Monument is 2.5" brass disk set flush in the concrete and stamped "Contra Costa County Benchmark 3137".

Elevation =33.71 NAVD88 Datum

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.



Well No.:	Mic-1		Pi	roject No.: 2461	
Casing Diameter:	inch			Address: 2185 Solano Way	
Depth of Well:	20,65 ft			Concord, CA	
Top of Casing Elevation:	170.18 ft			Date: December 6, 2005	
Depth to Groundwater:	9.48 ft			Sampler: Mehran Nowroozi	
Groundwater Elevation:	21.30 ft			Tony Perini	
Water Column Height:	11.17 ft				
Purged Volume:	2 gallo	ns			
	·				
Purging Method:	Bailer □			Pump 🖾	
Sampling Method:	Bailer 🗹			Pump □	
Color:	No 🖅	Yes		Describe	
Sheen:	No ⊡	Yes		Describe	
Odor:	No 🗆	Yes		Describe	

Time	Volume	D.O.	p∺	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃	SO ₄ -2
	(galions)	mg/L		ొ	(μS/cm)	NTU		mą/L	mą/L	mg/L
1:02 Fm	5 for	res	pling	1779	well					
1:04 fm	105	6.96	7.68	20.85	1610	54.6	-37			
1:06 8M	4	4.19	7.25	20.83	1560	301	-160			
1109 PM	8	3.17	7.17	20.63	1590	38	-204			
1:12 Pm	12	2.70	7.19	70 5Z	12 4n	45.0	-241			i
SAMPLES 1:15 PR	\	i I						07	6.8	50
	•		•		:					



Well No.:	19W-2K	2	F	Project No.: 2461
Casing Diameter:	2 ir	nch		Address: 2185 Solano Way
Depth of Well:	19.70 ft	t		Concord, CA
Top of Casing Elevation:	40.85 f	t		Date: December 6, 2005
Depth to Groundwater:	7.10	t		Sampler: Mehran Nowroozi
Groundwater Elevation:	33.75 t	t		Tony Perini
Water Column Height:	12.60	t		
Purged Volume:	11-	gallons		
Purging Method:	Bailer 🗆			Pump 🗗
Sampling Method:	Bailer □			Pump □
Color:	No 🗹	~ Y	'es □	Describe
Sheen:	No 🖂	Υ	′es ⊏	Describe
Odor:	No 🗹	Ý	′es ⊏	Describe

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO3	SO ₄ -2
	(galions)	mg/L		°C	(μS/cm)	NTU		mg/L	mg/L	mg/ <u>L</u>
1:55 Pm	Stan	Ko	pung	mg w	eli					
1:57 PM	1.5	4.09	7.12	23.39	1540	167	-71			
1:59 PM	4	3.55	7.02	23.38	1550	76	-88			
2:02 PM	8	3.25	6.97	23.40	1560	62.2	-103			
2:05 fm	12	3.08	6-95	23.41	1560	58.8	-112			i i
2:07 PM	Sav	ngles	>		i			0	D	0
		,			:					



Well No.:	12700	<u>~ 3</u>		Pı	oject No.: 2461
Casing Diameter:	2-	inch			Address: 2185 Solano Way
Depth of Well:	20.7	72 ft			Concord, CA
Top of Casing Elevation:	40.7	9 ft			Date: December 6, 2005
Depth to Groundwater:	10.	<u>(0</u> ft			Sampler: Mehran Nowroozi
Groundwater Elevation:	30.1	9 ft			Tony Perini
Water Column Height:	10.0	<u>52</u> ft			
Purged Volume:	12	gallons			
Purging Method:	Bailer	· 🗅			Pump 📴
Sampling Method:	Baile	D			Pump □
Color:	No		Yes		Describe
Sheen:	No		Yes		Describe
Odor:	No		Yes		Describe

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃	SO ₄ -2
	(galions)	mg/L		°C	(µS/cm)	NTU		mg/L	mg/L	mg/L
1:30 PM	: کر	langer		grag				- Contract		
1:32 Pm	1.5	5-66	7.32	21.82	1510	64-1	-98			
1: 34 PM	4	4.41	7.12	21.61	1540	48.6	-///	!		a de la constante de la consta
1:37 PM	8	3.81	7.09	21.19	1510	17.7	-128			
1:40 PM	12	3.49	7.08	21.11	1530	545	-136			
1:45 PM SAMPL	J						!	1.2	0	0
	-			· !	:			1		:



Well No.:	inv	1-4		Pi	roject No.: 2461
Casing Diameter:	_ Z	inch			Address: 2185 Solano Way
Depth of Well:	21.0	<u>v</u> _ft			Concord, CA
Top of Casing Elevation:	39.9	S Git			Date: December 6, 2005
Depth to Groundwater:	11-1	<u>8</u> ft			Sampler: Mehran Nowroozi
Groundwater Elevation:	28.3	ft (25)			Tony Perini
Water Column Height:	10.0	2 ft			•
Purged Volume:		gallons			
Purging Method:	Bailer	r 🗆			Pump 🗹
Sampling Method:	Bailer	r 🗹			Pump □
Color:	No		Yes		Describe
Sheen:	No	B,	Yes		Describe
Odor:	No		Yes		Describe

Time	Volume	D.O.	рΗ	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃	SO ₄ -2
	(gallons)	mg/L		°C	(µS/cm)	NTU		mg/L	mg/L	mg/L
11:19 1121	Sto	wiks	fungti	ng well	1			Annual Control of Cont		
12:01 PM	1.5	6.23	7.21	24.60	1480	248	-3/			
12:03 PM	4	4.64	7.03	24.81	1470	34.1	-73			
12:05 PM	7	4.10	6.98	24.70	1470	90.1	-84			
12.08 Pm	11	3.84	6.97	24.66	1470	67.2	-94			
SAMPLES 12:10	84				:		:	1.08	0	0
				!	:					



Well No.:	MW-5			Pr	roject No.: 2461
Casing Diameter:	2	inch			Address: 2185 Solano Way
Depth of Well:	20,90	ft			Concord, CA
Top of Casing Elevation:		ft			Date: December 6, 2005
Depth to Groundwater:	10.41	ft			Sampler: Mehran Nowroozi
Groundwater Elevation:	27.73	ft			Tony Perini
Water Column Height:	10.49	ft			
Purged Volume:	11	gallons			
Purging Method:	Bailer □				Pump 🗵
Sampling Method:	Bailer 🗹				Pump □
Color:	No ⊡′		Yes		Describe
	No ♂		Voc		Describe
Sheen:	No ☑		Yes	LJ	Describe
Odor:	No 🗹		Yes		Describe

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃	SO ₄ -2
	(galions)	mg/L		°C	(μS/cm)	NTU		mg/L	mg/L	mg/L
11:35 Am	Sta-	Ks	pur gr	eg ue	//		O COLOR			
11:37 Am	1.5			21.37		999	-14			
11:39 AM	4	5,43	7.05	21.32	1520	152	-68			
11:41 Am	7	4.62	6.97	21.33	1520	168	-84			
11:44 April	11	4.24	6.94	21.32	1530	134	-92		ļ	!
11:47 Am	Las	nopes			† !			0.18	0	0
				[:			1		



Well No.:	Mu	<u>- 6</u>		Pi	Project No.: 2461
Casing Diameter:	2	inch			Address: 2185 Solano Way
Depth of Well:	20.	70 ft			Concord, CA
Top of Casing Elevation:	37.8	5 _ft			Date: December 6, 2005
Depth to Groundwater:	10.0	<u>6</u> ft			Sampler: Mehran Nowroozi
Groundwater Elevation:	27.7	9_ft			Tony Perini
Water Column Height:	10.6	<u>, 4</u> ft			
Purged Volume:	17	gallons			
Purging Method:	Bailer				Pump 🗗
Sampling Method:	Bailer				Pump □
Color:	No		Yes		Describe
Sheen:	No	2	Yes		Describe
Odor:	No	⊿	Yes		Describe

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃	SO ₄ -2
	(gallons)	mg/L		°C	(uS/cm)	NTU		mg/L	mg/L	mg/L
11:10 Am	Stern	jes.	oungi	ng we	11		-			
11:12 Am	1.5	8.29	7.73	22.67	1360	414	119			
11:14 AM	4	5.68	7.31	22.74	1360	110	129			
11:17 Am	7	5.10	7.11	22.62	1370	56.6	128			
11:20 Am	11	4.79	7.01	22.52	1370	521	127	i		i :
11:23 Am	Sam	Plés						0.27	0	0
	7							i		



Well No.:	F.D. C	Pi	roject No.:	2461
Casing Diameter:	$\underline{\hspace{1cm}}$ inch		Address:	2185 Solano Way
Depth of Well:	ft			Concord, CA
Top of Casing Elevation:	41.29 ft		Date:	December 6, 2005
Depth to Groundwater:	16.20 ft		Sampler:	Mehran Nowroozi
Groundwater Elevation:	25.69 ft			Tony Perini
Water Column Height:	ft			
Purged Volume:	not pur	~9&B		
Purging Method:	Bailer □		Pump 🗆	
Sampling Method:	Bailer 🗹		Pump	
Color:	No □	Yes ⊡	Describe	brown ish
Sheen:	No 🗹	Yes 🗆	Describe	
Odor:	No 🗭	Yes 🗆	Describe	

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO₃⁻ mg/L	SO ₄ -2 mg/L
10:15 Am		my he	ろ					0	0	0
				1	-					
					-					1



Well No.:	EX	<u></u>		Pı	roject No.: 2461
Casing Diameter:		<u>f</u> inch			Address: 2185 Solano Way
Depth of Well:		ft			Concord, CA
Top of Casing Elevation:	37.	58 ft			Date: December 6, 2005
Depth to Groundwater:	16.	<u>60</u> ft			Sampler: Mehran Nowroozi
Groundwater Elevation:	20.9	9 <u>8</u> ft			Tony Perini
Water Column Height:		ft			•
Purged Volume:		gallons			
	no	gallons F pring	CO		
Purging Method:	Baile	r 🗆			Pump □
Sampling Method:	Baile	r 🗆			Pump □
Color:	No		Yes		Describe
Sheen:	No		Yes		Describe
Odor:	No		Yes		Describe

Time	Volume (galions)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO₃ mą/L	SO ₄ -2 mg/L
10:50 Am	14	mple	60					0.68	0	0
										_
		ļ.								
								:		
						-	1			· · · · · · · · · · · · · · · · · · ·
1					:			İ		

Appendix C

Laboratory Report and Chain Of Custody Form for the Fourth Quarter 2005 Monitoring Event

12 December 2005

Mansour Sepehr SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton, CA 94588

RE: 2185 Solano way, Concord

Work Order Number: 5120004

Mapad Ach

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,

Maiid Akhavan

Laboratory Director



6620 Owens Drive, Suite AProject Number: 2461Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr12-Dec-05 11:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5120004-01	Water	06-Dec-05 13:15	06-Dec-05 15:30
MW-2R	5120004-02	Water	06-Dec-05 14:07	06-Dec-05 15:30
MW-3	5120004-03	Water	06-Dec-05 13:45	06-Dec-05 15:30
MW-4	5120004-04	Water	06-Dec-05 12:10	06-Dec-05 15:30
MW-5	5120004-05	Water	06-Dec-05 11:47	06-Dec-05 15:30
MW-6	5120004-06	Water	06-Dec-05 11:23	06-Dec-05 15:30
FDC	5120004-07	Water	06-Dec-05 10:15	06-Dec-05 15:30
EX-1	5120004-08	Water	06-Dec-05 10:50	06-Dec-05 15:30



6620 Owens Drive, Suite AProject Number: 2461Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5120004-01RE1) Water	Sampled: 06-Dec-05 13:15	Received: 06-E	ec-05 15:	30					
Gasoline (C6-C12)	ND	50.0	ug/l	1	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	3.19	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	ND	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		72.8 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		92.6 %	70-	130	"	"	"	"	
MW-2R (5120004-02) Water Sa	ampled: 06-Dec-05 14:07 R	eceived: 06-Dec	-05 15:30						
Gasoline (C6-C12)	19900	2150	ug/l	43	BL50801	06-Dec-05	06-Dec-05	EPA 8260B	
Benzene	56.8	21.5	"	"	"	"	"	"	
Ethylbenzene	250	21.5	"	"	"	"	"	"	
m&p-Xylene	901	43.0	"	"	"	"	"	"	
o-xylene	502	21.5	"	"	"	"	"	"	
Toluene	ND	86.0	"	"	"	"	"	"	
MTBE	1580	21.5	"	"	"	"	"	"	
DIPE	ND	21.5	"	"	"	"	"	"	
ETBE	ND	21.5	"	"	"	"	"	"	
TAME	ND	86.0	"	"	"	"	"	"	
TBA	11100	430	"	"	"	"	"	"	
1,2-dichloroethane	ND	21.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	21.5	"	"	"	"	"	"	
Ethanol	ND	43000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.4 %	70-	130	"	"	"	"	
J			. 0						

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2R (5120004-02) Water Sampled: (06-Dec-05 14:07 Rece	eived: 06-Dec	-05 15:30						
Surrogate: Dibromofluoromethane		102 %	70-	130	BL50801	06-Dec-05	06-Dec-05	EPA 8260B	
Surrogate: Perdeuterotoluene		93.4 %	70-	130	"	"	"	"	
MW-3 (5120004-03RE1) Water Sample	d: 06-Dec-05 13:45 R	eceived: 06-D	ec-05 15:	30					
Gasoline (C6-C12)	ND	10800	ug/l	215	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	123	108	"	"	"	"	"	"	
Ethylbenzene	ND	108	"	"	"	"	"	"	
m&p-Xylene	ND	215	"	"	"	"	"	"	
o-xylene	ND	108	"	"	"	"	"	"	
Toluene	ND	430	"	"	"	"	"	"	
MTBE	20100	108	"	"	"	"	"	"	
DIPE	ND	108	"	"	"	"	"	"	
ETBE	ND	108	"	"	"	"	"	"	
TAME	ND	430	"	"	"	"	"	"	
TBA	30900	2150	"	"	"	"	"	"	
1,2-dichloroethane	ND	108	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	108	"	"	"	"	"	"	
Ethanol	ND	215000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		70.6 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		92.0 %	70-	-130	"	"	"	"	
MW-4 (5120004-04RE1) Water Sample	d: 06-Dec-05 12:10 R	eceived: 06-D	ec-05 15:	30					
Gasoline (C6-C12)	3110	50.0	ug/l	1	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	0.650	0.500	"	"	"	"	"	"	
Ethylbenzene	2.68	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	4.61	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	149	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte MW-4 (5120004-04RE1) Water Sampled: 06-Decomposition of the Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Perdeuterotoluene MW-5 (5120004-05) Water Sampled: 06-Dec-05 Gasoline (C6-C12)		86.6 % 102 % 98.4 %	70- 70-	130	Batch BL50801	Prepared 06-Dec-05	Analyzed 07-Dec-05	Method EPA 8260B	Note
Surrogate: Dibromofluoromethane Surrogate: Perdeuterotoluene MW-5 (5120004-05) Water Sampled: 06-Dec-05		102 % 98.4 %	70-				07-Dec-05	EPA 8260B	
Surrogate: Perdeuterotoluene MW-5 (5120004-05) Water Sampled: 06-Dec-05		98.4 %		130	,,				
MW-5 (5120004-05) Water Sampled: 06-Dec-05			70-	70-130		"	"	"	
-		eived: 06-Dec-0		130	"	"	"	"	
Gasoline (C6-C12)	8390		5 15:30						
` ,		50.0	ug/l	1	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	51.2	0.500	"	"	"	"	"	"	
Ethylbenzene	12.1	0.500	"	"	"	"	"	"	
n&p-Xylene	3.03	1.00	"	"	"	"	"	"	
p-xylene	ND	0.500	"	"	"	"	"	"	
Гoluene	3.43	2.00	"	"	"	"	"	"	
MTBE	53.4	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
ГАМЕ	ND	2.00	"	"	"	"	"	"	
ГВА	676	10.0	"	"	"	"	"	"	
,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		98.2 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		95.2 %	70-	130	"	"	"	"	
MW-6 (5120004-06RE1) Water Sampled: 06-De	ec-05 11:23	Received: 06-D	ec-05 15:3	30					
Gasoline (C6-C12)	ND	215	ug/l	4.3	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	ND	2.15	"	"	"	"	"	"	
Ethylbenzene	ND	2.15	"	"	"	"	"	"	
m&p-Xylene	ND	4.30	"	"	"	"	"	"	
p-xylene	ND	2.15	"	"	"	"	"	"	
Γoluene	ND	8.60	"	"	"	"	"	"	
MTBE	196	2.15	"	"	"	"	"	"	
DIPE	ND	2.15	"	"	"	"	"	"	
ETBE	ND	2.15	"	"	"	"	"	"	
ГАМЕ	ND	8.60	"	"	"	"	"	"	
ГВА	202	43.0	"	"	"	"	"	"	
,2-dichloroethane	ND	2.15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"	"	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-6 (5120004-06RE1) Water Sampled		Received: 06-D			Dateii	1 repared	Allaryzod	Wichiou	11010
Ethanol	ND	4300	ug/l	4.3	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		74.4 %		130	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %		130	"	"	"	"	
Surrogate: Perdeuterotoluene		91.8 %	70-	130	"	"	"	"	
FDC (5120004-07RE1) Water Sampled: 0	06-Dec-05 10:15 F	Received: 06-De	c-05 15:3()					
Gasoline (C6-C12)	ND	50.0	ug/l	1	BL50801	06-Dec-05	07-Dec-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	105	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	624	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		73.2 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		91.0 %	70-	130	"	"	"	"	
EX-1 (5120004-08RE1) Water Sampled:	06-Dec-05 10:50 l	Received: 06-De	ec-05 15:3	0					
Gasoline (C6-C12)	393	50.0	ug/l	1	BL50801	06-Dec-05	08-Dec-05	EPA 8260B	
Benzene	2.04	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	41.9	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	1000	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX-1 (5120004-08RE1) Water	Sampled: 06-Dec-05 10:50	Received: 06-De	ec-05 15:30						
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BL50801	06-Dec-05	08-Dec-05	EPA 8260B	_
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	?	76.4 %	70-13	0	"	"	"	"	
Surrogate: Dibromofluoromethan	e	104 %	70-13	0	"	"	"	"	
Surrogate: Perdeuterotoluene		93.2 %	70-13	0	"	"	"	"	



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BL50801 - EPA 5030 Water MS

Blank (BL50801-BLK1)				Prepared & Ana	lyzed: 08-Dec-05	
Surrogate: 4-Bromofluorobenzene	37.9		ug/l	50.0	75.8	70-130
Surrogate: Dibromofluoromethane	54.5		"	50.0	109	70-130
Surrogate: Perdeuterotoluene	46.8		"	50.0	93.6	70-130
MTBE	ND	0.500	"			
DIPE	ND	0.500	"			
ETBE	ND	0.500	"			
TAME	ND	2.00	"			
Gasoline (C6-C12)	ND	50.0	"			
TBA	ND	10.0	"			
1,2-dichloroethane	ND	0.500	"			
1,2-Dibromoethane (EDB)	ND	0.500	"			
Ethanol	ND	1000	"			
Benzene	ND	0.500	"			
Ethylbenzene	ND	0.500	"			
m&p-Xylene	ND	1.00	"			
o-xylene	ND	0.500	"			
Toluene	ND	2.00	"			
LCS (BL50801-BS1)				Prepared & Ana	lyzed: 08-Dec-05	
Surrogate: 4-Bromofluorobenzene	47.0		ug/l	50.0	94.0	70-130
Surrogate: Dibromofluoromethane	51.7		"	50.0	103	70-130
Surrogate: Perdeuterotoluene	45.2		"	50.0	90.4	70-130
MTBE	85.3	0.500	"	100	85.3	70-130
ETBE	99.7	0.500	"	100	99.7	70-130
Gasoline (C6-C12)	1630	50.0	"	2000	81.5	70-130
TBA	439	10.0	"	500	87.8	70-130
Benzene	103	0.500	"	100	103	70-130
Toluene	99.3	2.00	"	100	99.3	70-130



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BL50801 - EPA 5030 Water MS

LCS Dup (BL50801-BSD1)				Prepared & Ana	lyzed: 08-Dec-05	;		
Surrogate: 4-Bromofluorobenzene	46.5		ug/l	50.0	93.0	70-130		
Surrogate: Dibromofluoromethane	50.6		"	50.0	101	70-130		
Surrogate: Perdeuterotoluene	46.7		"	50.0	93.4	70-130		
MTBE	77.1	0.500	"	100	77.1	70-130	10.1	20
ETBE	84.1	0.500	"	100	84.1	70-130	17.0	20
TBA	424	10.0	"	500	84.8	70-130	3.48	20
Gasoline (C6-C12)	1590	50.0	"	2000	79.5	70-130	2.48	20
Benzene	103	0.500	"	100	103	70-130	0.00	20
Toluene	101	2.00	"	100	101	70-130	1.70	20



6620 Owens Drive, Suite AProject Number:2461Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr12-Dec-05 11:01

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

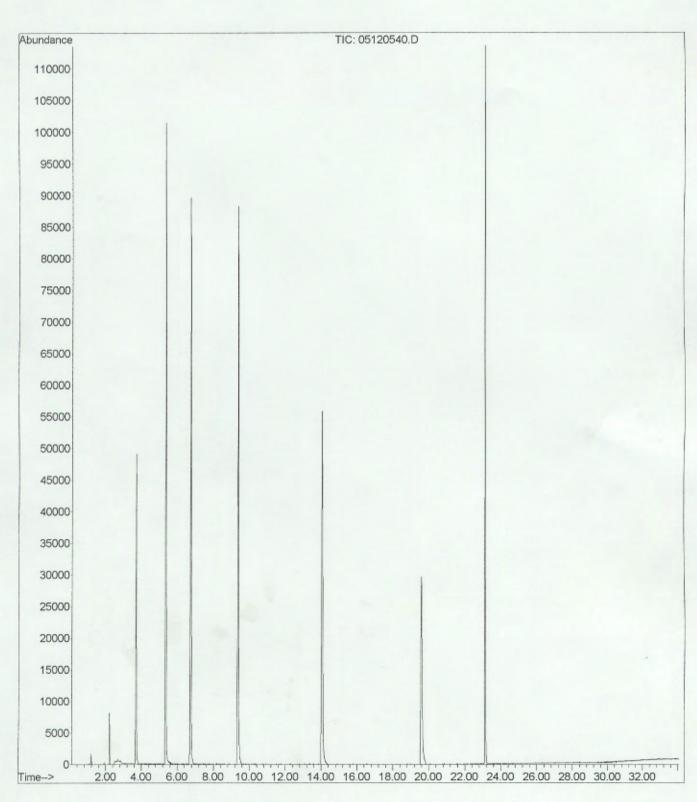
File :C:\MSDChem\1\DATA\2005-Dec-05-1407.b\05120540.D

Operator :

Acquired : 6 Dec 2005 8:35 pm using AcqMethod VOCOXY.M

Instrument : PAL GCMS Sample Name: BL50801-BLK1

Misc Info : Vial Number: 40



File :C:\MSDChem\1\DATA\2005-Dec-05-1407.b\05120541.D

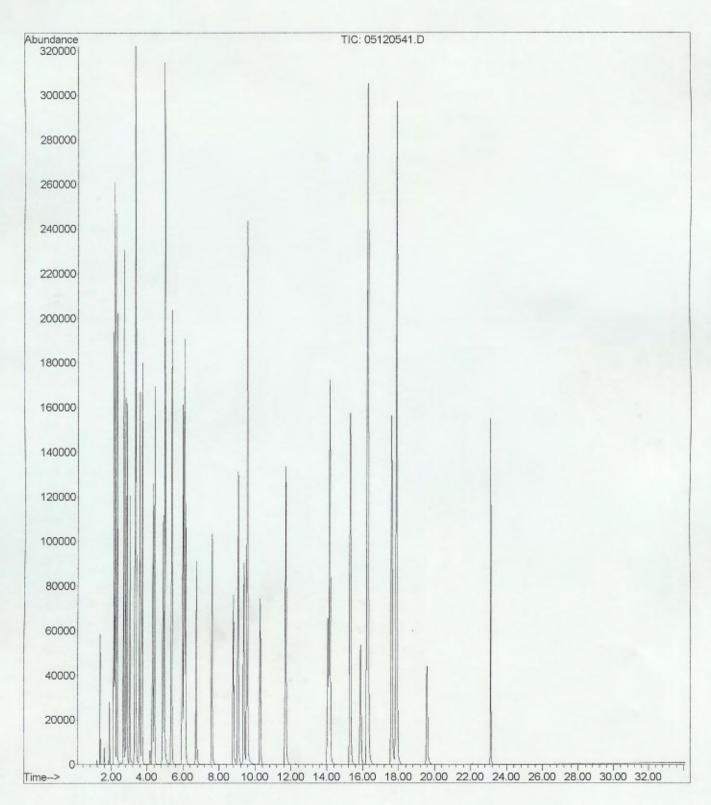
Operator :

Acquired : 6 Dec 2005 9:19 pm using AcqMethod VOCOXY.M

Instrument : PAL GCMS

Sample Name: BL50801-BS1@voc

Misc Info : Vial Number: 41



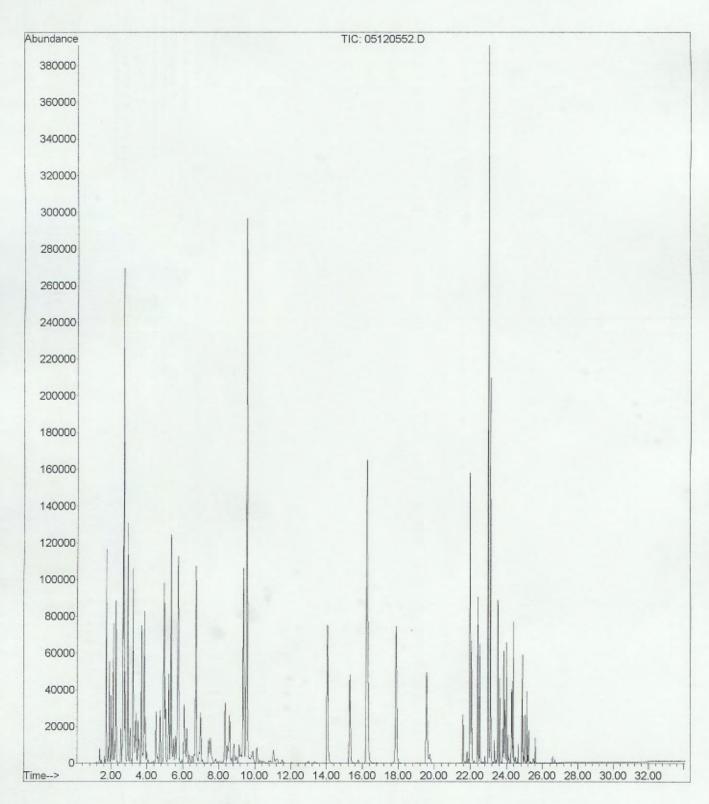
File :C:\MSDChem\1\DATA\2005-Dec-05-1407.b\05120552.D Operator :

Acquired : 7 Dec 2005 5:27 am using AcqMethod VOCOXY.M

Instrument : PAL GCMS

Sample Name: BL50801-BS1@gas

Misc Info : Vial Number: 52



CHAIN OF CUSTODY FORM

Page / of/

PAL Pacific Analytical Laboratory 851 West Midway Ave., Suite 201B Alameda, CA 94501 510-864-0364 Telephone 510-864-0365 Fax

PAL Login# 5120004

Project No: 2461 Samp			nple	r: /	Tony P	ERI	11	1	neh	ian No	wooti		Ana	alyse	es/Me	thod			
				Report To: Tony Perini									8260B	ates					
				Co	mpa	any:	SOMA En	viror	ımeı	ntal	Engi	neering, Inc.		82	/ger				
Turnaround Time: Standard Fax:					-734-6400 -734-6401							, BTEX	Gasoline Oxygenates Pb Scavengers						
	Sampling Date/Time		Date/Time	Matrix		x	# of Containers Preserva			rvati	ives			TPHg,	Gasoli Pb Sc				
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ S04	HNO ₃	ICE	F	ield Notes						
WHEN !	MW-1	12/6/05	115 pm		Х		4 VOAs	Х			Х	Gr	Grab Sample		Х				
	MW-2R	1	201 Pm		Х		4 VOAs	X			Х	Gr	Grab Sample		Х				
	MW-3		145 pm		Х		4 VOAs	X			Х	Gr	ab Sample	X	Х				-
	MW-4		1210 m		Х		4 VOAs	X			Х	Gr	ab Sample	X	Х				
	MW-5		1147 AM		Х		4 VOAs	Χ			Х		ab Sample	X	Х				-
	MW-6		1123 AM		Х		4 VOAs	X			X		ab Sample	X	Х				
	FDC ·		1015 AM		Х		4 VOAs	X			X		ab Sample	X	Х				
	EX-1	Ψ	1050 AM		Х		4 VOAs	Х			X	Gr	ab Sample	Х	Х				
Samp	oler Remarks:						Relinguis	hed	bv:		Date	e/Time:	Received by:				Date	/Time	:
Ethar	EDF O	UTPUT REC	QUIRED				Jony :	Ne	in	i.	12/	3=30 pm 6/05	Received by:	3	20PA	2/4/	105		- 0

Appendix D

Central Contra Costa Sanitary District Special Discharge Permit

CENTRAL CONTRA COSTA SANITARY DISTRICT Class III Industrial User Permit

Industrial User Nam 3:	Shimot	& LHGER, cla Bent Hown (former Bea	icon Station)
Site Address: 2185 Solano Way, Concord, California 94519			
Mailing Address:	3		
Permit Issued: June 1, 2005 Permit Renewal: Nay 31, 2007		Permit Fee through May 31, 2006 Permit Fee through May 31, 2007	\$ 351.00 to be billed

Certification

- The Industrial User agrees to comply with Title 10 of the District Code and the terms and conditions of this permit.
- The Industrial User understands that this permit may be revoked and permission to discharge may be denied.
- The Industrial User shall be liable for all damages, direct and consequential, caused by violating the terms and conditions of this permit.

"I am an authorized representative of the Industrial User as specified in CCCSD Code Title 10.04.020 (3). I have authority to commit resources necessary to achieve and maintain compliance with the conditions of this permit. I have reviewed this permit document and understand the requirements contained herein."

Company Officer: Name:	Mansour Seph
Title:	President
, Signature:	Juffe 1
Date:	5-3-05

Definition of Authorized Representative of Industrial User: An authorized representative of an industrial user may be: (1) the principal executive officer, if the industrial user is a corporation; (2) general partner or proprietor if the industrial user is a partnership or proprietorship, respectively; (3) duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which the discharge originates and if such representative is identified in writing by the individual designated in (1) or (2) above.

Authorization

The Industrial User is authorized to discharge wastewater to the sanitary sewer, subject to the Industrial User's compliance with Title 10 of the District Code, 40CFR, and the terms and conditions of this permit. This authorization is conditional on the Industrial User signing and returning the above certification to the District's Source Control Section.

Central Contra Costa Sanitary District Name: Timothy L. Potter Title: Source Control Program Superintendent Signature: Timothy L. Potter

Appendix E

Chain of Custody Form and

Laboratory Report of the Treatment System Samples



16 December, 2005

Tony Perini Soma Environmental Eng. 6620 Owens Drive, Suite A Pleasanton, CA. 94588

RE: N/A

Work Order: S512079

Enclosed are the results of analyses for samples received by the laboratory on 12/02/05 09:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tami Lindsay Project Manager

CA ELAP Certificate # I-2630

Jami Linday



819 Striker Ave Ste 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100 www.sequoialabs.com

Soma Environmental Eng. 6620 Owens Drive, Suite Λ Pleasanton CA., 94588 Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

ANALYTICAL REPORT FOR SAMPLES

				The second secon
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	S512079-01	Water	12/01/05 16:30	12/02/05 09:20
Influent	S512079-02	Water	12/01/05 16:35	12/02/05 09:20





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Sacramento

	~ •	1	· ·						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S512079-01) Water	Sampled: 12/01/05 16:	30 Received:	12/02/05	09:20					
Gasoline Range Organics (C4-C	12) ND	50	ug/l	1	5120136	12/07/05	12/07/05	EPA 8015B-VOA	
Surrogate: 4-BFB (FID)		111 %	60-	140	"	"	"	H	
Surrogate: a.a.a-TFT (PID)		102 %	60-	140	н	"	"	"	
	Sampled: 12/01/05 16:	35 Received:	12/02/05	09:20					
Gasoline Range Organics (C4-	C12) 3700	500	ug/l	10	5120186	12/13/05	12/14/05	EPA 8015B-VOA	
Surrogate: 4-BFB (FID)		134 %	60-	-140	n	"	и	"	
Surrogate: a,a,a-TFT (PID)		105 %	60-	-140	"	"	"	н	





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

Extractable Hydrocarbons by EPA 8015B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S512079-01) Water Sampled	1: 12/01/05 16:30	Received:	12/02/05	09:20					
Diesel Range Organics (C10-C28)	ND	50	ug/l	1	5120162	12/08/05	12/09/05	EPA 8015B- SVOA	
Surrogate: Octacosane		110 %	50-	-150	"	n	"	"	
Influent (S512079-02) Water Sampled	1: 12/01/05 16:35	Received:	12/02/05	09:20					
Diesel Range Organics (C10-C28)	1400	50	ug/l	1	5120162	12/08/05	12/09/05	EPA 8015B- SVOA	
Surrogate: Octacosane		110 %	50-	-150	"	"	"	n n	





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

MTBE by EPA 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S512079-01) Water	Sampled: 12/01/05 16:30	Received:	12/02/05	09:20					
Methyl tert-butyl ether	ND	2.0	ug/l	1	5120136	12/07/05	12/07/05	EPA 8021B	
Surrogate: a,a,a-TFT (PID)		102 %	60-	140	"	n	"	n	
Influent (S512079-02) Water	Sampled: 12/01/05 16:35	Received:	12/02/05	09:20					
Methyl tert-butyl ether	780	20	ug/l	10	5120186	12/13/05	12/14/05	EPA 8021B	
Surrogate: a.a,a-TFT (PID)		105 %	60-	140	"	n	"	tr	





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

\$512079 Reported: 12/16/05 12:01

Purgeable Aromatics by EPA Method 602 Sequoia Analytical - Sacramento

	~ 1		·						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S512079-01) Water	Sampled: 12/01/05 16:30	Received:	12/02/05	09:20					
Benzene	ND	0.50	ug/1	1	5120136	12/07/05	12/07/05	EPA 602	
Toluene	ND	0.50	n	"	n	н	Ħ	**	
Ethylbenzene	ND	0.50	**	n	er er	n	**	11	
Xylenes (total)	ND	0.50				"			
Surrogate: a,a,a-TFT (PID)		102 %	<i>60</i> -	-140	"	"	"	"	
Influent (S512079-02) Water	Sampled: 12/01/05 16:35	Received:	12/02/05	09:20					
Benzene	57	5.0	ug/l	10	5120186	12/13/05	12/14/05	EPA 602	
Toluene	ND	5.0	11	n	11	ti	Ħ	n	
Ethylbenzene	5.3	5.0	**	**	**	11	11	**	
Xylenes (total)	65	5.0	u	н	"	н			
Surrogate: a,a,a-TFT (PID)		105 %	60	-140	п	"	"	n	





Project:N/A Project Number: 2463-Solano Wy, Concord Project Manager: Tony Perini

S512079 Reported:

12/16/05 12:01

Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120136 - EPA 5030B (P/T) / I	EPA 8015B-V	'OA								
Blank (5120136-BLK1)				Prepared a	& Analyze	d: 12/07/0	5			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	10.7		"	10.0		107	60-140			
Surrogate: a,a,a-TFT (PID)	10.0		"	10.0		100	60-140			
Laboratory Control Sample (5120136-B	S1)			Prepared	& Analyze	ed: 12/07/0	5			
Surrogate: 4-BFB (FID)	11.0		ug/l	10.0		110	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike (5120136-MS1)	Source: S	511618-01		Prepared	& Analyze	ed: 12/07/0	5			
Surrogate: 4-BFB (FID)	11.8		ug/l	10.0		118	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike Dup (5120136-MSD1)	Source: S	511618-01		Prepared	& Analyze	ed: 12/07/0	5			
Surrogate: 4-BFB (F1D)	11.5		ug/l	10.0		115	60-140			
Surrogate: a,a,a-TFT (PID)	10.8		"	10.0		108	60-140			
Batch 5120186 - EPA 5030B (P/T) /	EPA 8015B-V	VOA								
Blank (5120186-BLK1)		·		Prepared	12/09/05	Analyzed:	12/12/05			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	11.1		"	10.0		111	60-140			
Surrogate: a,a.a-TFT (PID)	10.3		"	10.0		103	60-140			
Blank (5120186-BLK2)				Prepared	: 12/12/05	Analyzed	: 1 <u>2/13</u> /05			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogaic: 4-BFB (FID)	11.1		"	10.0		111	60-140			
Surrogate: a.a.a-TFT (PID)	10.5		"	10.0		105	60-140			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

Spike

Source

S512079 Reported:

RPD

12/16/05 12:01

Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Sacramento

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5120186 - EPA 5030B (P/T) / EPA	A 8015B-V	OA								
Laboratory Control Sample (5120186-BS1)				Prepared	& Analyz	ed: 12/12/				
Gasoline Range Organics (C4-C12)	96.0	50	ug/l				70-130			
Surrogate: 4-BFB (FID)	11.8		11	10.0		118	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Laboratory Control Sample (5120186-BS2)				Prepared:	12/12/05	Analyzed	1: 12/13/05			
Surrogate: 4-BFB (FID)	10.8		ug/l	10.0		108	60-140			
Surrogate: a.a.a-TFT (PID)	10.8		"	10.0		108	60-140			
Matrix Spike (5120186-MS1)	Source: S	512077-02		Prepared	& Analyz	ed: 12/12/	05			
Gasoline Range Organics (C4-C12)	98.2	50	ug/l		ND		60-140			
Surrogate: 4-BFB (FID)	11.3		"	10.0		113	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		n	10.0		104	60-140			
Matrix Spike Dup (5120186-MSD1)	Source: S	512077-02		Prepared	& Analyz	ed: 12/12/	05			
Gasoline Range Organics (C4-C12)	89.3	50	ug/l		ND		60-140	9	25	
Surrogate: 4-BFB (FID)	10.7		"	10.0		107	60-140			
Surrogate: a.a.a-TFT (PID)	9.81		"	10.0		98	60-140			

%REC





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120162 - EPA 3510C / EPA 8	015B-SVOA									
Blank (5120162-BLK1)				Prepared:	12/08/05	Analyzed:	12/09/05			
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: Octacosane	21.8		"	20.0		109	50-150			
Laboratory Control Sample (5120162-B	S1)			Prepared:	12/08/05	Analyzed:	12/09/05			
Diesel Range Organics (C10-C28)	495	50	ug/l	500		99	60-140			
Surrogate: Octacosane	21.3			20.0		106	50-150			
Laboratory Control Sample Dup (51201	62-BSD1)			Prepared	: 12/08/05	Analyzed:	12/09/05			
Diesel Range Organics (C10-C28)	501		ug/l	500		100	60-140	1	50	
Surrogate: Octacosane	20.9		,,	20.0		104	50-150			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

MTBE by EPA 8021B - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120136 - EPA 5030B (P/T) /	EPA 8021B									
Blank (5120136-BLK1)				Prepared	& Analyz	ed: 12/07/	05			
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: a,a,a-TFT (PID)	10.0		"	10.0		100	60-140			
Laboratory Control Sample (5120136-B	S1)			Prepared	& Analyz	ed: 12/07/	05			
Methyl tert-butyl ether	11.6	2.0	ug/l	10.0		116	70-130			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike (5120136-MS1)	Source: S	511618-01		Prepared	& Analyz	ed: 12/07/	05			
Methyl tert-butyl ether	12.1	2.0	ug/l	10.0	ND	121	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike Dup (5120136-MSD1)	Source: S	511618-01		Prepared	& Analyz	ed: 12/07/	05			
Methyl tert-butyl ether	12.2	2.0	ug/l	10.0	ND	122	60-140	0.8	25	
Surrogate: a.a.a-TFT (PID)	10.8		11	10.0		108	60-140			
Batch 5120186 - EPA 5030B (P/T) /	EPA 8021B									
Blank (5120186-BLK1)				Prepared	: 12/09/05	Analyze	d: 12/12/05			
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: a.a.a-TFT (PID)	10.3		"	10.0		103	60-140			
Blank (5120186-BLK2)				Prepared	: 12/12/05	Analyze	d: 12/13/05			
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: a,a,a-TFT (PID)	10.5		"	10.0		105	60-140			
Laboratory Control Sample (5120186-I	BS1)			Prepared	& Analyz	zed: 12/12	/05			
Methyl tert-butyl ether	11.9	2.0	ug/l	10.0		119	70-130			
Surrogate: a.a.a-TFT (PID)	10.4		11	10.0		104	60-140			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

MTBE by EPA 8021B - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120186 - EPA 5030B (P/T) /	EPA 8021B									
Laboratory Control Sample (5120186-B	S2)			Prepared:	12/12/05	Analyzed	1: 12/13/05			
Methyl tert-butyl ether	11.1	2.0	ug/l	10.0		111	70-130			
Surrogate: a.a.a-TFT (PID)	10.8		"	10.0		108	60-140			
Matrix Spike (5120186-MS1)	Source: S	512077-02		Prepared	& Analyz	ed: 12/12/	05			
Methyl tert-butyl ether	12.7	2.0	ug/l	10.0	0.651	120	60-140			
Surrogate: a,a.a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike Dup (5120186-MSD1)	Source: S	512077-02		Prepared	& Analyz	ed: 12/12/	05			
Methyl tert-butyl ether	12.3	2.0	ug/l	10.0	0.651	116	60-140	3	25	
Surrogate: a.a.a-TFT (PID)	9.81		"	10.0		98	60-140			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

Purgeable Aromatics by EPA Method 602 - Quality Control Sequoia Analytical - Sacramento

Amilia	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte							· ·			
Batch 5120136 - EPA 5030B (P/T) / EPA	4 602						 			
Blank (5120136-BLK1)				Prepared	& Analyze	ed: 12/07/0	05			
Benzene	ND	0.50	ug/l							
Foluene	ND	0.50	н							
Ethylbenzene	ND	0.50	n							
Xylenes (total)	ND	0.50	**							
Surrogate: a.a,a-TFT (PID)	10.0		"	10.0		100	60-140			
Laboratory Control Sample (5120136-BS1)				Prepared	& Analyz	ed: 12/07/	05			
Benzene	10,6	0.50	ug/l	10.0		106	70-130			
Toluene	10.8	0.50	"	10.0		108	70-130			
Ethylbenzenc	10.9	0.50	11	10.0		109	70-130			
Xylenes (total)	33.6	0.50	"	30.0		112	70-130			
Surrogate: a,a,a-TFT (P1D)	10.4		"	10.0		104	60-140			
Matrix Spike (5120136-MS1)	Source: S	511618-01		Prepared	& Analyz	ed: 12/07/	05			
Benzene	10.9	0.50	ug/l	10.0	0.164	107	60-140			
Toluene	10.9	0.50	н	10.0	0.249	107	60-140			
Ethylbenzene	11.0	0.50	**	10.0	0.153	108	60-140			
Xylenes (total)	34.3	0.50	t1	30.0	ND	114	60-140			
Surrogate: a,a,a-TFT (PID)	10.4		"	10.0		104	60-140			
Matrix Spike Dup (5120136-MSD1)	Source: S	511618-01		Prepared	& Analyz	ed: 12/07	05			
Benzene	11.1	0.50	ug/l	10.0	0.164	109	60-140	2	25	
Toluene	11.2	0.50	**	10.0	0.249	110	60-140	3	25	
Ethylbenzene	11.3	0.50	**	10.0	0.153	111	60-140	3	25	
Xylenes (total)	34.9	0.50	"	30.0	ND	116	60-140	2	25	
Surrogate: a.a.a-TFT (PID)	10.8		"	10.0		108	60-140			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

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12/16/05 12:01

Purgeable Aromatics by EPA Method 602 - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120186 - EPA 5030B (P/T) / EP.	A 602								<u></u>	
Blank (5120186-BLK1)				Prepared:	12/09/05	Analyzed	: 12/12/05			
Benzene	ND	0.50	ug/l							
Foluene	ND	0.50	n							
thylbenzene	ND	0.50	n							
(ylenes (total)	ND	0.50	"							
Surrogate: a,a.a-TFT (PID)	10.3		"	10.0		103	60-140			
Blank (5120186-BLK2)				Prepared:	12/12/05	Analyzed	1: 12/13/05			
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	н							
Ethylbenzene	ND	0.50	"							
(ylenes (total)	ND	0.50	**							
furrogate: a,a,a-TFT (PID)	10.5		"	10.0		105	60-140			
aboratory Control Sample (5120186-BS1))			Prepared	& Analyz	ed: 12/12/	05			
Benzene	10.7	0.50	ug/l	10.0		107	70-130			
Toluene	10.8	0.50	n	10.0		108	70-130			
Ethylbenzene	10.9	0.50	11	10.0		109	70-130			
Kylenes (total)	33.7	0.50	+1	30.0		112	70-130			
Surrogate: a.a.a-TFT (PID)	10.4		"	10.0		104	60-140			
Laboratory Control Sample (5120186-BS2)			Prepared	: 12/12/05	Analyze	d: 12/13/05			
Benzene	10.4	0.50	ug/l	10.0		104	70-130			
Toluene	10.5	0.50	**	10.0		105	70-130			
Ethylbenzene	10.7	0.50	"	10.0		107	70-130			
Xylenes (total)	32.7	0.50	**	30.0		109	70-130			
Surrogate: a.a,a-TFT (PID)	10.8		н	10.0		108	60-140			
Matrix Spike (5120186-MS1)	Source: S	512077-02		Prepared	& Analy	zed: 12/12				
Benzene	10.9	0.50	սք/1	10.0	0.311	106	60-140			
Toluenc	11.0	0.50	**	10.0	ND	110	60-140			
Ethylbenzene	11.1	0.50	**	10.0	ND	111	60-140			
Xylenes (total)	34.5	0.50	NT.	30.0	ND	115	60-140			
Surrogate: a.a.a-TFT (PID)	10.4			10.0		104	60-140			





Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

S512079 Reported:

12/16/05 12:01

Purgeable Aromatics by EPA Method 602 - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120186 - EPA 5030B (P/T) /	EPA 602					· - .				
Matrix Spike Dup (5120186-MSD1)	Source: S512077-02			Prepared & Analyzed: 12/12/05						
Benzene	10.9	0.50	ug/l	10.0	0.311	106	60-140	0	25	
Toluene	11.0	0.50	н	10.0	ND	110	60-140	0	25	
	11.1	0.50		10.0	ND	111	60-140	0	25	
Ethylbenzene Xylenes (total)	34.5	0.50	91	30.0	ND	115	60-140	0		
Surrogate: a,a,a-TFT (PID)	9.81		"	10.0		98	60-140			



819 Striker Ave Ste 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100 www.sequoialabs.com

Soma Environmental Eng. 6620 Owens Drive, Suite A Pleasanton CA., 94588 Project:N/A
Project Number:2463-Solano Wy, Concord
Project Manager:Tony Perini

\$512079 Reported: 12/16/05 12:01

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference



ergp.(if required) 1455 N. McDowell Blvd, Suite D. • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100 Comments (اح ANALYSES REQUESTED (Please provide method) O Level IV 2430 Sprig Court, Suite G • Concord, CA 94520 • (925) 356 3150 • FAX (925) 356-0109 Page # 1763 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (406) 782 6308 C Level III Date / Time / Temp.: 72 Date / Time / Temp/ Date / Time / Temp. Date / Time / Temp. Project: Solame wAY- converso Sequoia's Work Order # □ Level II (standard) 409 18/25 Method of Shipment. Billing Address (if different) Es. ny Sty. 7.57 E-mail Address thermings on actual and OC Data 운 P.O. # a MANDATORY:

SDWA (Prinking Water)

CWA (Waste Water)

RCRA (Hazardous Waste)

Other Samples on Ice? To Yes Received by I Co.: 12, 2/v/ Date / Time Results Required: 1420 420 Sequoia's Sample # Received by I Co.: Received by / Co: Received by / Ca.: Zip Cade: 94538 Amber - Ambie Container Fax #: 925-734-640, words Type Co.45 욷 Drac, Swith Cont. Cont. Were Samples Received in Good Condition? / 🗖 Yes 🗆 Elle Leen mealthe State: CA 2-8 Hours 72 Hours 24 Hours 48 Hours Matrix Desc. 0000 12/165 435PM 12/1/05 430/4 Relinquished by I Co. Town Devent 12273 Date / Time Sampled Telephone: 925-734-6400 Report To: Tor17 PERILL Furnaround G 10-15 Working Days 7004 PER, 21 (Standard TAT) D 7 Working Days Company Name: ≺ि । र Mailing Address: Colo 22 City. //easgran Diffuent Relinquished by / Co.: Relinquished by / Co.: Relinquished by / Co.: Extracrt Sample I.D. Sampler. œ Ø ф ιci Ġ

Yellow Sequora

Pink Client

White: Sequoia (Total/Zer rend)?